



Final Report

GSA Seismic Rating

March 31, 2016
#2015-104S

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GSA SEISMIC RATING SYSTEM EXECUTIVE SUMMARY

March 31, 2016

The proposed seismic rating system utilizes the HAZUS AEBM methodology as a tool to define the relative seismic risk among buildings in GSA's inventory.

HAZUS is a nationally applicable standardized methodology that contains models for estimating potential losses from earthquakes, floods and hurricanes. HAZUS (seismic) was launched in 1997 by the Federal Emergency Management Agency (FEMA). HAZUS AEBM (Advanced Engineering Building Module) was released in 2003, as an adaptation of HAZUS earthquake methodology for use in single buildings.

In mid to late 2000's, the California Office of Statewide Health Planning and Development (OSHPD), the Agency responsible for hospitals in California, adapted HAZUS AEBM as a "screening tool" to evaluate life safety risk to occupants of California Acute Care Hospitals. In 2010, HAZUS AEBM methodology was adapted by the Department of Veterans Affairs for seismic risk assessment of (VA) Hospital Buildings.

The HAZUS AEBM methodology has been adapted to this project as follows:

- For buildings in California, the methodology follows the modifications as outlined by OSHPD in the California Administrative Code 2013 Appendix H to Chapter 6.
- For buildings outside California, the methodology follows the modifications as outlined in "*Seismic Risk Assessment of VA Hospital Buildings - Risk Assessment Methods Phase 1 Report*" prepared by the National Institute of Building Sciences dated April 13, 2010.
- Adjustments have been made to capture multi-story wood frame buildings with severe weak story deficiencies.

The tool outputs Seismic Risk Rating for each building based on the probability of collapse (POC) values determined from the HAZUS AEBM methodology mentioned above. The POC values are calculated based on the following key parameters:

- Structural capacity of each building: The structural capacity is derived from the seismic design coefficient (base shear - C_s) determined for each building based on the lateral force resisting system (Model Building Type), size, location and the age of the building.
- Seismic Hazard: BSE-2E seismic hazard level at each site determined based on ASCE 41-13, "*Seismic Evaluation and Retrofit of Existing Buildings*" was used. BSE-2E is taken as a seismic hazard with 5 % probability of exceedance in 50 years at a site.
- Significant Structural Deficiencies that influence building capacity and building response (degradation, maximum drift, modal shape factor, complete structural damage fragilities, and the collapse factor.)

Buildings in California were separated from other states since we have a better knowledge of code requirement for California buildings (via Uniform Building Code) between 1941 and 1975.

A user manual for the Seismic Risk Rating (SRR) calculator along with a glossary of key terminology has been provided in the following pages. For the HAZUS AEBM Parameters used by the SRR calculator, please refer to Attachments 1 & 2.

Refer to the enclosed database of Seismic Risk Ratings and the associated ranking for the inventory. The relative seismic risk ranking is primarily defined by the Seismic Risk Rating (SRR) values as shown below.

Rankings of Seismic Risk Rating (SRR)		
EHR	12% < SRR	Buildings of <u>Exceptionally High Risk</u> recommended as highest priority for mitigation of risk
HR	2% < SRR < 12%	Buildings of <u>High Risk</u> recommended as a high priority for mitigation of risk
LP	SRR < 2%	Buildings not meeting the RP8 Seismic Standards, but of <u>Low Priority</u> for mitigation of risk compared to the others
NR	Retrofitted buildings or buildings meeting structural life-safety criteria as determined by an evaluation report are <u>Not Rated</u> . These buildings may not fully comply with the latest requirements of RP8 Seismic Standards including the nonstructural life-safety requirements.	

Seismic Risk Rating and Ranking Notes:

- 1) All buildings in LP/HP/EHR rankings fail the National Standard for seismic evaluation (RP8). A “LP” ranking does not mean that the building meets Life Safety per RP-8 or ASCE 41-13. It simply means that it has a lower priority than the others.
- 2) The dividing line between EHR/HR and LP ranking has been set for purpose of this methodology to be consistent with rankings used by other agencies (e.g. State of California DGS, OSHPD, University of California, and Stanford University) as having high risk to life safety.
- 3) The dividing line between EHR and HR rankings has been set for purpose of this methodology to identify buildings of known high collapse potential such as Unreinforced Masonry Bearing Walls (URM) and Non-ductile Concrete Frames (C1) in high seismic regions.
- 4) The Seismic Risk Rating Tool is best used for comparison of relative risk of many buildings, rather than evaluation of individual buildings. The SRR is not calibrated to performance objectives of ASCE 41 or other rating systems.
- 5) The SRR is not intended to define acceptance to RP8 performance criteria.
- 6) The SRR does not consider the seismic hazard associated with nonstructural components.

- 7) The SRR Tool does not consider the impact of Geological Site Hazards (such as Liquefaction, Slope Stability, and Surface Fault Rupture).
- 8) Extraction of data from evaluation reports:
- For calculation of SRR values, building data was extracted from seismic evaluation reports and to limited extent from calculations (where available).
 - Structural drawings were not reviewed as the intent of this Report was to develop ratings quickly, and not to engage in re-evaluation of the buildings.
 - It is important to note that the extraction of seismic deficiencies from an existing report requires engineering judgment, since not all reports provide seismic deficiencies in a consistent (ASCE-31) format. Answers to some of the critical deficiency statements were not directly provided in the report (e.g. the buildings evaluated to 80% UBC).
 - Building strength was primarily taken from default values from HAZUS AEBM (modified per OSHPD methodology). Refinement was made by extracting the actual strength from the evaluation reports when available (which yielded better results).

As part of this Report, the earthquake performance rating for 10 selected buildings was determined using the procedures of the United States Resiliency Council's (USRC) rating system. A summary of ratings has been provided herein. For detailed back-up information for USRC ratings, please refer to Attachment 3.

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SEISMIC RISK RATING – SUMMARY DATABASE

DATABASE SUMMARY

(b) (5)



SEISMIC RISK RATING –EXPANDED DATABASE

EXPANDED DATABASE

BUILDING LOCATION INFORMATION					BUILDING DATA					CRITERIA / DATA		SITE SEISMICITY DATA						RESULTS			
Region	Location_Code	Building_Name	City	State	Building_GSF	Design Year	Bldg Height above ground (ft)	No. of Stories above ground	No. of Stories below ground	Model Building Type	Evaluation Criteria	Evaluation Level (T1, T2 or T3)	UBC Zones	Seismic Design Level	BSE2E-Sxs	BSE2E-Sx1	TL	Seismicity for Kappa Index Based on Ss and S1	Seismic Risk Rating (SRR)	SRR Category EHR= Exceptionally High Risk; HR=High Risk; LP=Low Priority;NR=Not Rated)	Remarks
4	AL0039	JOHN A CAMPBELL USCT	MOBILE	AL	115014	1932	70	5		(b) (5)	ASCE 31	T1	1		0.079	0.07	12	Low	(b) (5)		
4	GA0078	TOMOCHICHI FB-CH	SAVANNAH	GA	127372	1898	71.5	4			FEMA 310	T2	2A		0.338	0.192	8	Moderate			
4	GA0118	FB-PO-CT - EAST BUILDING	ROME	GA	96116	1974	46	3	0		ASCE 31	T2-LDP	2A		0.306	0.184	12	Moderate			
4	GA0118	FB-PO-CT - WEST BUILDING	ROME	GA		1974	32.5	2	0		ASCE 31	T2-LDP	2A		0.306	0.184	12	Moderate			
4	KY0086	ROMANO MAZZOLI FB	LOUISVILLE	KY	469769	1969		10	1		FEMA 310	T2-LDP	1		0.179	0.132	12	Moderate			
4	SC0018	J. BRATTON DAVIS US BKRPCY	COLUMBIA	SC	58135	1936	71	5	1		ASCE 31	T1	2A		0.448	0.231	8	Moderate			
4	TN0088	CLIFFORD DAVIS-ODELL HORT	MEMPHIS	TN	444745	1963	192	14	1		ASCE 41	T3-LDP	3		0.877	0.455	12	High			
5	IN0133	MINTON-CAPEHART F/B	INDIANAPOLIS	IN	629469	1974	100	6	1		FEMA 310	T2-LDP	2A		0.134	0.106	12	Low			
8	CO0009	BYRON WHITE US CRTHS	DENVER	CO	270106	1916	86	4	2	FEMA 310	T1	1		0.139	0.067	4	Low	(b) (5)			
8	CO0039	BYRON G.ROGERS - COURTHOUSE	DENVER	CO	778043	1965	93	5		FEMA 310	T2	1		0.138	0.067	4	Low				
8	CO0039	BYRON G.ROGERS - OFFICE	DENVER	CO		1965		18		FEMA 310	T2	1		0.138	0.067	4	Low				
8	MT0004	MIKE MANSFIELD FB / CH	BUTTE	MT	72938	1904	66.67	4	1	ATC 14/UBC 1991/GSA Section 3		3		0.478	0.233	6	Moderate				
8	MT0017	FB-PO-CT	MISSOULA	MT	144681	1913		3	1	FEMA 310	T1	3		0.516	0.241	6	Moderate				
8	MT0028	BILLINGS	BILLINGS	MT		1965	82	5	1	FEMA 310	T1	1		0.099	0.063	4	Low				
8	UT0010	FOREST SERVICE BLDG	OGDEN	UT	53221	1933	63	4	1	ATC 14/UBC 1991/GSA Section 3		3		1.009	0.531	8	High				
8	UT0017	FRANK E MOSS COURTHOUSE	SALT LAKE CITY	UT	234288	1932		4	1	FEMA 310 (ii)	T1	3		1.12	0.597	8	High				
8	UT0035	JAMES V HANSEN FEDERAL BLDG	OGDEN	UT	206344	1965		6	1	FEMA 310	T1	3		1.01	0.531	8	High				
8	UT0039	IRS BUILDING	PROVO	UT	6346	1971		1	0	ASCE 31	T2-deficiency	3		0.887	0.457	8	High				
8	UT0042	FB	SAINT GEORGE	UT	10162	1967	13	1		ASCE 31	T1	2B		0.516	0.245	8	Moderate				
8	WY0003	EWING T. KERR FB-CT	CASPER	WY	57610	1932		3	1	ASCE 31	T2-LDP	1		0.279	0.115	4	Moderate				
8	WY0029	JOSEPH C O'MAHONEY FED CE	CHEYENNE	WY	207835	1964	131	8	1	FEMA 310	T1	1		0.165	0.09	4	Low				
8	WY0030	DICK CHENEY FB- FED OFFICE	CASPER	WY	155948	1970		5		FEMA 310	T1	1		0.279	0.115	4	Moderate				
8	WY0030	DICK CHENEY FB - POST OFFICE	CASPER	WY		1970		1		FEMA 310	T1	1		0.279	0.115	4	Moderate				
9	CA0041	US COURT HOUSE	LOS ANGELES	CA	885285	1937		18		FEMA 356	T2	4		1.812	0.625	8	Very high				
9	CA0091	APPRAISERS BLDG	SAN FRANCISCO	CA	497668	1944		16		ASCE 41-06	T3 by R+C	4		1.467	0.887	12	Very high				
9	CA0149	FEDERAL BUILDING	LOS ANGELES	CA	71534	1955	26	2	1	FEMA 178, ATC 14-6.1	T3 - NSP	4		1.766	0.793	8	Very high				
9	CA0152	JOHN E. MOSS FEDERAL BUILDING	SACRAMENTO	CA	362190	1961	124	8	0	FEMA 356	T3 - NSP	3		0.656	0.402	12	Moderately High				
9	CA0154	PHILLIP BURTON,FB CT	SAN FRANCISCO	CA	1427966	1964	292	20	2	80 % UBC 1988		4		1.5	0.935	12	Very high				
9	CA0167	EDWARD J. SCHWARTZ - US COURTHOUSE	SAN DIEGO	CA	895247	1976	100	5	2	ASCE 31	T2	4		0.979	0.55	8	High				
9	CA0167	EDWARD J. SCHWARTZ - FEDERAL COURTHOUSE	SAN DIEGO	CA		1976	90	6	2	ASCE 31	T2	4		0.979	0.55	8	High				
9	CA0185	SOCIAL SECURITY BLDG	PASADENA	CA	13200	1975	14	1	0	1991 UBC	T2	4		2.176	1.108	8	Very high				
9	CA0194	SOCIAL SECURITY BUILDING	HUNTINGTON	CA	23538	1969	14	1	0	80 % UBC& 1994 UBC	T2- static	4		1.413	0.738	8	Very high				
9	CA0198	JAMES C. CORMAN FED BLDG	VAN NUYS	CA	230890	1974	59	4	1	80 % 1994 UBC	T3- NSP	4		1.622	0.83	8	Very high				
9	CA0199	FEDERAL BUILDING - BLDG A	SACRAMENTO	CA	315407	1967	27	2	0	UBC 1988		3		0.586	0.384	12	Moderately High				
9	CA0199	FEDERAL BUILDING - BLDG B	SACRAMENTO	CA		1967	27	2	0	UBC 1988		3		0.586	0.384	12	Moderately High				
9	CA0199	FEDERAL BUILDING - BLDG C	SACRAMENTO	CA		1967	27	2	0	UBC 1988		3		0.586	0.384	12	Moderately High				
9	CA0199	FEDERAL BUILDING - BLDG D	SACRAMENTO	CA		1967	14	1	0	UBC 1988		3		0.586	0.384	12	Moderately High				
9	CA0200	FEDERAL BUILDING	SANTA ANA	CA	280364	1975	130	9	1	80% UBC 1994 UBC	T2 level	4		1.117	0.616	8	High				
9	CA0221	JOHN F SHEA FED BLDG- FED BLDG	SANTA RITA	CA	77834	1975	44	3	1	FEMA 356	T2- static	4		2.193	1.334	8	Very high				
9	CA0221	JOHN F SHEA FED BLDG- COURTHOUSE	SANTA RITA	CA		1975	19	1		FEMA 356	T2- static	4		2.193	1.334	8	Very high				
9	CA0224Z	Hawthorne Federal Building	Lawndale	CA	216760	1970		6		assume ASCE 41-06	T3 -pushover	4		1.192	0.656	8	Very high				
9	CA0235	LEO J. RYAN FEDERAL RECORDS BLDG	SAN BRUNO	CA	233986	1972		2		earthquake damage report		4		2.127	1.427	12	Very high				
9	CA0260	ROBERT F. PECKHAM - COURTHOUSE	SAN JOSE	CA	269337	1982	66	5	1	FEMA 310 & 1994 UBC	T3- NSP	4		1.5	0.825	12	Very high				
9	CA0260	ROBERT F. PECKHAM- OFFICE	SAN JOSE	CA		1982	40	3		FEMA 310 & 1994 UBC	T3- NSP	4		1.5	0.825	12	Very high				
9	CA0260	ROBERT F. PECKHAM-ROOF CA	SAN JOSE	CA		1982		1		FEMA 310		4		1.5	0.825	12	Very high				
9	CA0267	MAIN BUILDING	SAN DIEGO	CA	45947	1985	13	1	0	FEMA 310	T2	4		0.794	0.436	8	Moderately High				
9	CA0268	SECONDARY INSP BLDG	SAN DIEGO	CA	53095	1985		1		FEMA 310	T2	4		0.794	0.436	8	Moderately High				
9	CA0269	PASEO INT'L - OTAY MESA	SAN DIEGO	CA	71714	1985	15	1		FEMA 310	T2	4		0.794	0.436	8	Moderately High				
9	CA0283	EDWARD R ROYBAL FB & CH	LOS ANGELES	CA	1296874	1993	366	22	3	FEMA 273+	T3- NSP	4		1.795	0.804	8	Very high				
9	CA0309	ROBERT E. COYLE FEDERAL COURTHOUSE	FRESNO	CA	495914	2005	80	6	1	building is retrofitted, the r		3		0.633	0.374	12	Moderately High				
9	CA0521	CHET HOLIFIELD - TOWER STR	LAGUNA	CA	1054223	1971	119	7		ASCE 31 was skipped and		4		0.998	0.365	8	High				
9	CA0521	CHET HOLIFIELD - STR 1 &3	LAGUNA	CA		1971	20	1	1 pa	ASCE 31 was skipped and		4		0.998	0.365	8	High				
9	CA0521	CHET HOLIFIELD - STR 2	LAGUNA	CA		1971	20	1	1 pa	ASCE 31 was skipped and		4		0.998	0.365	8	High				
9	CA0521	CHET HOLIFIELD - STR 4 & 5	LAGUNA	CA		1971		3		ASCE 31 was skipped and		4		0.998	0.365	8	High				
9	CA0521	CHET HOLIFIELD - STR 6 & 7	LAGUNA	CA		1971	37.5	2		ASCE 31 was skipped and		4		0.998	0.365	8	High				

EXPANDED DATABASE

BUILDING LOCATION INFO			STRUCTURAL DEFICIENCIES																								
Region	Location_Code	Building_Name	Year Built	Foundation	Basement	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation	
4	AL0039	JOHN A CAMPBELL USCT	(b) (5)																								
4	GA0078	TOMOCHICHI FB-CH																									
4	GA0118	FB-PO-CT - EAST BUILDING																									
4	GA0118	FB-PO-CT - WEST BUILDING																									
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5	IN0133	MINTON-CAPEHART F/B																									
8	CO0009	BYRON WHITE US CRTHS																									
8	CO0039	BYRON G.ROGERS - COURTH																									
8	CO0039	BYRON G.ROGERS - OFFICE																									
8	MT0004	MIKE MANSFIELD FB / CH																									
8	MT0017	FB-PO-CT																									
8	MT0028	BILLINGS																									
8	UT0010	FOREST SERVICE BLDG																									
8	UT0017	FRANK E MOSS COURTHOUS																									
8	UT0035	JAMES V HANSEN FEDERAL B																									
8	UT0039	IRS BUILDING																									
8	UT0042	FB																									
8	WY0003	EWING T. KERR FB-CT																									
8	WY0029	JOSEPH C O'MAHONEY FED C																									
8	WY0030	DICK CHENEY FB- FED OFFIC																									
8	WY0030	DICK CHENEY FB - POST OFFI																									
9	CA0041	US COURT HOUSE																									
9	CA0091	APPRAISERS BLDG																									
9	CA0149	FEDERAL BUILDING																									
9	CA0152	JOHN E. MOSS FEDERAL BUIL																									
9	CA0154	PHILLIP BURTON,FB CT																									
9	CA0167	EDWARD J. SCHWARTZ - US C																									
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9	CA0185	SOCIAL SECURITY BLDG																									
9	CA0194	SOCIAL SECURITY BUILDING																									
9	CA0198	JAMES C. CORMAN FED BLDG																									
9	CA0199	FEDERAL BUILDING - BLDG A																									
9	CA0199	FEDERAL BUILDING - BLDG B																									
9	CA0199	FEDERAL BUILDING - BLDG C																									
9	CA0199	FEDERAL BUILDING - BLDG D																									
9	CA0200	FEDERAL BUILDING																									
9	CA0221	JOHN F SHEA FED BLDG- FED																									
9	CA0221	JOHN F SHEA FED BLDG- COU																									
9	CA0224Z	Hawthorne Federal Building																									
9	CA0235	LEO J. RYAN FEDERAL RECO																									
9	CA0260	ROBERT F. PECKHAM - COUR																									
9	CA0260	ROBERT F. PECKHAM- OFFIC																									
9	CA0260	ROBERT F. PECKHAM-ROOF C																									
9	CA0267	MAIN BUILDING																									
9	CA0268	SECONDARY INSP BLDG																									
9	CA0269	PASEO INT'L - OTAY MESA																									
9	CA0283	EDWARD R ROYBAL FB & CH																									
9	CA0309	ROBERT E. COYLE FEDERAL																									
9	CA0521	CHET HOLIFIELD - TOWER ST																									
9	CA0521	CHET HOLIFIELD - STR 1 &3																									
9	CA0521	CHET HOLIFIELD - STR 2																									
9	CA0521	CHET HOLIFIELD - STR 4 & 5																									
9	CA0521	CHET HOLIFIELD - STR 6 & 7																									

EXPANDED DATABASE

BUILDING LOCATION INFORMATION					BUILDING DATA					CRITERIA / DATA		SITE SEISMICITY DATA					RESULTS				
Region	Location_Code	Building_Name	City	State	Building_GSF	Design_Year	Bldg Height above ground (ft)	No. of Stories above ground	No. of Stories below ground	Model Building Type	Evaluation Criteria	Evaluation Level (T1, T2 or T3)	UBC Zones	Seismic Design Level	BSE2E-Sxs	BSE2E-Sx1	TL	Seismicity for Kappa Index Based on Ss and S1	Seismic Risk Rating (SRR)	SRR Category (EHR= Exceptionally High Risk; HR=High Risk; LP=Low Priority;NR=Not Rated)	Remarks
9	CA0521	CHET HOLIFIELD - STR 8	LAGUNA	CA		1971	17.5	1		(b) (5)	ASCE 31 was skipped and		4		0.998	0.365	8	High	(b) (5)		(b) (5)
9	CA0621	BS MAIN BLDG	WINTER	CA	7001	1958		1			FEMA 310 T2		4		0.746	0.426	8	Moderately High			
9	CA0621	BS CUSTOM AND RES. BLDG	WINTER	CA		1958		1			FEMA 310 T2		4		0.746	0.426	8	Moderately High			
9	NV0012	C. CLIFTON YOUNG FOB & CTH	RENO	NV	126891	1965	67	5			FEMA 310-F T2		4		1.309	0.599	6	Very high			
9	NV0013	FOLEY FOB & COURTHOUSE	LAS VEG	NV	209205	1967	70	4	1		FEMA 178-8 T2 level		2B		0.387	0.189	6	Moderate			
9	NV0014	FEDERAL BUILDING	CARSON	NV	51338	1970	40	3			80 % UBC 1994		4	LC	1.429	0.628	6	Very high			
9	NV0014	FEDERAL BUILDING - POST OF	CARSON	NV		1970		1			80 % UBC 1994		4		1.429	0.628	6	Very high			
9	NV0014	FEDERAL BUILDING- GARAGE	CARSON	NV		1975		1			80 % UBC 1994		4	LC	1.429	0.628	6	Very high			
10	AK0013	FED BLDG,CRTH, And USPO	JUNEAU	AK	343635	1968	174.5	11	1		FEMA 310 T2-LSP		3		0.563	0.487	12	Moderately High			
10	AK0029	FEDERAL BUILDING- NORTH BL	FAIRBAN	AK	200615	1977		3	1-p		80 % UBC 1994		3		0.795	0.408	6	Moderately High			
10	AK0029	FEDERAL BUILDING- EAST BLD	FAIRBAN	AK		1977		3	1		80 % UBC 1994		3		0.795	0.408	6	Moderately High			
10	AK0029	FEDERAL BUILDING- GARAGE	FAIRBAN	AK		1977		4	0		80 % UBC 1994		3		0.795	0.408	6	Moderately High			
10	AK0029	FEDERAL BUILDING- MP BLDG	FAIRBAN	AK		1977		1	0		80 % UBC 1994		3		0.795	0.408	6	Moderately High			
10	AK0031	FED BLDG, USCT- MAIN BLDG	ANCHOR	AK	652051	1976	86.92	6	1		FEMA 310 T2		4		1.172	1.418	16	Very high			
10	AK0031	FED BLDG, USCT- MODULE A	ANCHOR	AK		1976	26.75	2	1		FEMA 310 T2		4		1.172	1.418	16	Very high			
10	AK0031	FED BLDG, USCT- MODULE F	ANCHOR	AK		1976	65.4	5	1		FEMA 310 T2		4		1.172	1.418	16	Very high			
10	AK0031	FED BLDG, USCT- ANNEX	ANCHOR	AK		1979			1		FEMA 310 T2		4		1.172	1.418	16	Very high			
10	AK0506	STATION BUILDING	TOK	AK	7011	1971		2	1		FEMA 310 T2		3		0.217	0.154	12	Moderately High			
10	AK0507	SERVICE BUILDING	TOK	AK	7511	1971		1	1		FEMA 310 T1		3		0.217	0.154	12	Moderately High			
10	AK0506-0	SERVICE BUILDING- QUARTERS	TOK	AK		1971		1	1		FEMA 310 T1		3		0.217	0.154	12	Moderately High			
10	AK0506-0	SERVICE BUILDING -REC BLDG	TOK	AK		1971		1	1		FEMA 310 T1		3		0.217	0.154	12	Moderately High			
10	AK0506-0	SERVICE BUILDING- POLE BLDG	TOK	AK		1971		1			FEMA 310 T1		3		0.217	0.154	12	Moderately High			
10	AK0506-0	SERVICE BUILDING -MOBILE UN	TOK	AK		1971		1			FEMA 310 T1		3		0.217	0.154	12	Moderately High			
10	ID0025	JAMES A MCCLURE FED BLDG/	BOISE	ID	274412	1966	98	7	2 (FEMA 310 T2		3		0.258	0.127	6	Moderate			
10	OR0018	J A REDDEN US CTHS	MEDFOR	OR	33804	1916		3	1		FEMA 178		3		0.515	0.355	16	Moderately High			
10	OR0023	GUS J. SOLOMON CTHSE	PORTLAN	OR	205338	1933		8	1		FEMA 310 T2-LDP		3		0.878	0.548	16	High			
10	OR0033	911 FEDERAL BLDG	PORTLAN	OR	312447	1953	94	8	1		FEMA 310 + T2- LDP		3		0.877	0.545	16	High			
10	OR0033	911 FEDERAL BLDG - AUDITOR	PORTLAN	OR		1953		2	0		FEMA 310 + T2-LDP		3	LC	0.877	0.545	16	High			
10	OR0045	DAVID J. WHEELER FB	BAKER	OR	58599	1969	44	3			FEMA 310 T2		2B		0.375	0.203	16	Moderate			
10	OR0051	EUGENE FED BLDG - COURTHO	EUGENE	OR	111697	1974		2			FEMA 310 T2		3		0.549	0.289	16	High			
10	OR0051	EUGENE FED BLDG - OFFICE	EUGENE	OR		1974		4			FEMA 310 T2		3		0.549	0.289	16	High			
10	OR0058	BPA BUILDING	PORTLAN	OR	701184	1987	129	8	4		FEMA 356 a T2		3		0.877	0.545	16	High			
10	WA0028	RICHARD B. ANDERSON FEDER	PORT AN	WA	22569	1933	26.5	2	1		FEMA 310 T2		3		1.101	0.609	16	Very high			
10	WA0045	FED BLDG U S POST OF	SPOKAN	WA	160292	1904	70	4	1		80% UBC 1991		2B		0.265	0.136	16	Moderate			
10	WA0053	WM O DOUGLAS FBUSCT	YAKIMA	WA	58282	1912	57	3	1 (80% UBC 1994		2B		0.422	0.246	16	Moderately High			
10	WA0059	FED ARCH & REC CTR-NORTH	SEATTLE	WA	187752	1946		1			80 % UBC 1994		3		0.946	0.515	6	High			
10	WA0059	FED ARCH & REC CTR- CENTR	SEATTLE	WA		1984		1			80 % UBC 1994		3		0.946	0.515	6	High			
10	WA0059	FED ARCH & REC CTR - SOUTH	SEATTLE	WA		1984		1			80 % UBC 1994		3		0.946	0.515	6	High			
10	WA0063	FED BLDG USPO & CH - FED BL	RICHLAN	WA	386561	1965	96	7	1		ASCE 31 T2-deficienc		2B		0.43	0.258	16	Moderate			
10	WA0063	FED BLDG USPO & CH - USPO	RICHLAN	WA		1965	19	1	0		ASCE 31 T2-deficienc		2B		0.43	0.258	16	Moderate			
10	WA0063	FED BLDG USPO & CH- COURT	RICHLAN	WA		1965	46	3	1-p		ASCE 31 T2-deficienc		2B		0.43	0.258	16	Moderate			
10	WA0064	THOMAS S. FOLEY US COURTH	SPOKAN	WA	301915	1967	124	9	2		ASCE 31 T2		2B		0.353	0.192	16	Moderate			
10	WA0066	BORDER PATROL	BLAINE	WA	11847	1966	12	1			FEMA 310 T2		3		0.829	0.483	16	Moderately High			
10	WA0082	FED BLDG AND USPO	WENATCO	WA	104414	1973	64	4			FEMA-310 T2		2B		0.505	0.318	16	Moderately High			
10	WA0118	FDA BLDG	BOTHELL	WA	61266	1988		2			ASCE 31 T2-deficienc		3		1.041	0.606	6	High			
10	WA0811	ADMINISTRATION BLDG	AUBURN	WA	105771	1954	25	2			FEMA 310 T1 and T2		3		1.031	0.595	6	High			
10	WA0953	FED CTR SO OFF- SHOWROOM	SEATTLE	WA	424343	1932	36.375	2			ASCE 31-03 T1 and T2		3		0.929	0.971	6	High			
10	WA0953	FED CTR SO OFF - ASSEMBLY	SEATTLE	WA		1932	37.71	2			ASCE 31-03 T1 and T2		3		0.929	0.971	6	High			
10	WA0953	FED CTR SO OFF- CRANE RUNN	SEATTLE	WA		1932	36	1			ASCE 31-03 T1 and T2		3		0.929	0.971	6	High			
10	WA0953	FED CTR SO OFF- WHARF OF	SEATTLE	WA		1932		1			ASCE 31-03 T1 and T2		3		0.929	0.971	6	High			
10	WA0956	FED CTR S BIA OFFICE	SEATTLE	WA	9599	1933	40	1	1		ASCE 31-03 T1		3		0.929	0.971	6	High			
10	WA7587	TACOMA UNION STATION - UNI	TACOMA	WA	0	1911	61	4			FEMA 310 T2		3		0.957	0.525	6	High			
10	WA7587	TACOMA UNION STATION - COU	TACOMA	WA		1992	41	3			T3- NSP		3		0.957	0.525	6	High			
10	WA7587	TACOMA UNION STATION - SEG	TACOMA	WA		1992	41	3			T2- LDP		3		0.957	0.525	6	High			

BUILDING LOCATION INFO			STRUCTURAL DEFICIENCIES																							
Region	Location_Code	Building_Name	Pre 1933	Load Path	Mass Irreg.	Vert. Discont.	Adj. Build.	Captive Col.	Deter. Wood	Deter. Steel	Deter. Conc.	Weak Col (conc)	Weak Col (Steel)	Wall Anch.	Redun.	Weak Story	Soft Story	Tors. Irreg.	Defl. Incomp.	Diaph. Open	Top. Slab	Cripple Walls	URM Wall h/t	URM Parap	Shear Failure C1 building only	
9	CA0521	CHET HOLIFIELD - STR 8	(b) (5)																							
9	CA0621	BS MAIN BLDG																								
9	CA0621	BS CUSTOM AND RES. BLDG																								
9	NV0012	C. CLIFTON YOUNG FOB & CTH																								
9	NV0013	FOLEY FOB & COURTHOUSE																								
9	NV0014	FEDERAL BUILDING																								
9	NV0014	FEDERAL BUILDING - POST OF																								
9	NV0014	FEDERAL BUILDING- GARAGE																								
10	AK0013	FED BLDG,CRTH, And USPO																								
10	AK0029	FEDERAL BUILDING- NORTH BL																								
10	AK0029	FEDERAL BUILDING- EAST BLD																								
10	AK0029	FEDERAL BUILDING- GARAGE																								
10	AK0029	FEDERAL BUILDING- MP BLDG																								
10	AK0031	FED BLDG, USCT- MAIN BLDG																								
10	AK0031	FED BLDG, USCT- MODULE A																								
10	AK0031	FED BLDG, USCT- MODULE F																								
10	AK0031	FED BLDG, USCT- ANNEX																								
10	AK0506	STATION BUILDING																								
10	AK0507	SERVICE BUILDING																								
10	AK0506-0	SERVICE BUILDING- QUARTER																								
10	AK0506-0	SERVICE BUILDING -REC BLDG																								
10	AK0506-0	SERVICE BUILDING- POLE BLD																								
10	AK0506-0	SERVICE BUILDING -MOBILE UN																								
10	ID0025	JAMES A MCCLURE FED BLDG/																								
10	OR0018	J A REDDEN US CTHS																								
10	OR0023	GUS J. SOLOMON CTHSE																								
10	OR0033	911 FEDERAL BLDG																								
10	OR0033	911 FEDERAL BLDG - AUDITORI																								
10	OR0045	DAVID J. WHEELER FB																								
10	OR0051	EUGENE FED BLDG - COURTH																								
10	OR0051	EUGENE FED BLDG - OFFICE																								
10	OR0058	BPA BUILDING																								
10	WA0028	RICHARD B. ANDERSON FEDER																								
10	WA0045	FED BLDG U S POST OF																								
10	WA0053	WM O DOUGLAS FBUSCT																								
10	WA0059	FED ARCH & REC CTR-NORTH																								
10	WA0059	FED ARCH & REC CTR- CENTR																								
10	WA0059	FED ARCH & REC CTR - SOUTH																								
10	WA0063	FED BLDG USPO & CH - FED BL																								
10	WA0063	FED BLDG USPO & CH - USPO																								
10	WA0063	FED BLDG USPO & CH- COURT																								
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10	WA0118	FDA BLDG																								
10	WA0811	ADMINISTRATION BLDG																								
10	WA0953	FED CTR SO OFF- SHOWROOM																								
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10	WA0953	FED CTR SO OFF- CRANE RUN																								
10	WA0953	FED CTR SO OFF- WHARF OF																								
10	WA0956	FED CTR S BIA OFFICE																								
10	WA7587	TACOMA UNION STATION - UNI																								
10	WA7587	TACOMA UNION STATION - CO																								
10	WA7587	TACOMA UNION STATION - SE																								

MANUAL FOR SEISMIC RISK RATING CALCULATOR

The macros should be enabled.

DESCRIPTION OF INPUT PARAMETERS FOR SEISMIC RISK RATING CALCULATOR:

Yellow Cells are input required for the Seismic Risk Rating calculations to run and they are as follows:

BSE2E- S_{xs} : From USGS website
<http://earthquake.usgs.gov/designmaps/us/application.php>
 Select Design Code Reference Document: 2013 ASCE 41
 Earthquake Hazard Level: BSE-2E

BSE2E- S_{x1} : From USGS website
<http://earthquake.usgs.gov/designmaps/us/application.php>
 Select Design Code Reference Document: 2013 ASCE 41
 Earthquake Hazard Level: BSE-2E

Long Period Transition Period T_L : From USGS website
<http://earthquake.usgs.gov/designmaps/us/application.php>
 Select Design Code Reference Document: 2010 ASCE 7 (w/March 2013 errata)
 T_L is included in the detailed report

Seismicity: Choose from drop-down list (Low, Moderate, Moderately High, High or Very High)
 Determined from following table. (Table 5-1 of FEMA P-155)

Table 5-1 Range and Median MCE_R Spectral Response Acceleration Values in Each Seismicity Region

Seismicity Region	Range of Response Values for Each Region		Median Response Values for Each Region	
	S_s (g)	S_1 (g)	$S_{s,avg}$ (g)	$S_{1,avg}$ (g)
Low (L)	$S_s < 0.250g$	$S_1 < 0.100g$	0.20	0.08
Moderate (M)	$0.250g \leq S_s < 0.500g$	$0.100g \leq S_1 < 0.200g$	0.40	0.16
Moderately High (MH)	$0.500g \leq S_s < 1.000g$	$0.200g \leq S_1 < 0.400g$	0.80	0.32
High (H)	$1.000g \leq S_s < 1.500g$	$0.400g \leq S_1 < 0.600g$	1.20	0.48
Very High (VH)	$S_s \geq 1.500g$	$S_1 \geq 0.600g$	2.25	0.90

S_s and S_1 are determined from USGS website:
<http://earthquake.usgs.gov/designmaps/us/application.php>
 Select Design Code Reference Document: 2010 ASCE 7 (w/March 2013 errata)
 Select Risk Category: I or II or III

Number of stories above ground: Do not include small penthouses.

Design Year: Provide year only. For Building in CA, year of the California Building Code (CBC/UBC) used for the original building design; for pre-1933 buildings and for non west coast buildings, the design year shall be reported.

State: State, the building is located in.

UBC Seismic Zone: Based on the location of the building, determine the UBC Zone from UBC 94. Refer to Figure-1.

Model Building Type: Choose from the drop-down list. Refer to Table-1.

Deficiencies: Refer to Table-2. "TRUE" means deficiency exists. "FALSE" means deficiency does not exist.

Important Note:

- For C1 buildings with shear failure deficiency, weak story irregularity and deflection incompatibility deficiencies shall be "TRUE".
- For S1 buildings, that are Pre-Northridge, it should be considered to include soft story irregularity deficiency as "TRUE".

Green Columns are optional input as such:

Building height above ground: If this number is input, H_r in equation A6-6 of Appendix H to Chapter 6 of 2013 California Building Code is overwritten.


C_s : If the number is input, C_s in equation A6-2 of Appendix H to Chapter 6 of 2013 California Building Code is overwritten.

T_e : If the number is input, T_e in equation A6-3 of Appendix H to Chapter 6 of 2013 California Building Code is overwritten.

Seismic Design Level: The user can overwrite the Seismic Design Level for outside of California buildings. If the input is zero, the program uses seismic design levels per Table 2.2 of HAZUS AEBM Technical and User's Manual for outside of California Building.

HOW TO OBTAIN THE SEISMIC RISK RATING:

Once the input is completed, the user should go to 'intersectionpoint' tab and click the "RUN" button.

	INPUT					
	C_s	T_e	α_1	α_2	Gamma (γ)	L_a
	0.067	0.57	0.75	0.75	1.88	
	INTERMEDIATE OUTPUT					
	A_y	D_y	A_u	D_u	β_e	
	0.168	0.535	0.196	2.546	7	
"RUN" BUTTON	OUTPUT					
	S_d	S_a				
	0.224	0.070				

Seismic Risk Rating is displayed in the "RESULTS" Table 'BIF' tab.

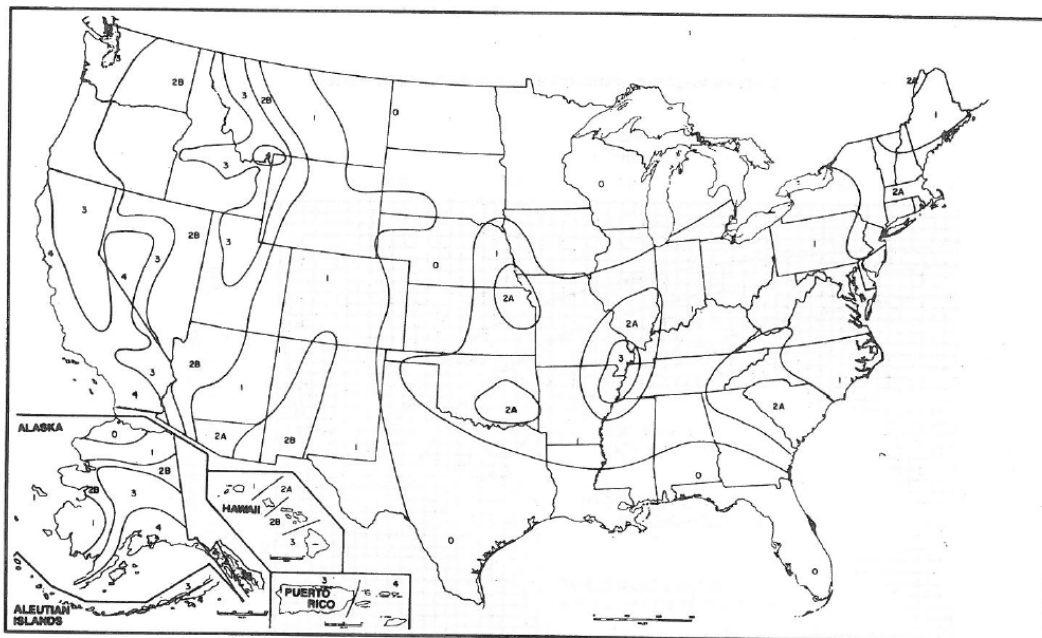


FIGURE 16-2—SEISMIC ZONE MAP OF THE UNITED STATES

For areas outside of the United States, see Appendix Chapter 16.

FIGURE-1 : SEISMIC ZONE MAP

TABLE-1: MODEL BUILDING TYPE (FROM ASCE 41-13 TABLE 3-1)

W1 Wood Light Frames	These buildings are single- or multiple-family dwellings one or more stories high. Building loads are light, and the framing spans are short. Floor and roof framing consists of wood joists or rafters on wood studs spaced no more than 24 in. apart. The first-floor framing is supported directly on the foundation system or is raised up on cripple studs and post-and-beam supports. The foundation may consist of a variety of elements. Chimneys, where present, consist of solid brick masonry, masonry veneer, or wood frame with internal metal flues. Seismic forces are resisted by wood frame diaphragms and shear walls. Floor and roof diaphragms consist of straight or diagonal lumber sheathing, tongue-and-groove planks, oriented strand board, or plywood. Shear walls consist of straight or lumber sheathing, plank siding, oriented strand board, plywood, stucco, gypsum board, particle board, or fiberboard. Interior partitions are sheathed with plaster or gypsum board.
W2 Wood Frames, Commercial and Industrial	These buildings are commercial or industrial buildings with a floor area of 5,000 ft ² or more. There are few, if any, interior walls. The floor and roof framing consists of wood or steel trusses, glulam or steel beams, and wood posts or steel columns. The foundation system may consist of a variety of elements. Seismic forces are resisted by wood diaphragms and exterior stud walls sheathed with plywood, oriented strand board, stucco, plaster, or straight or diagonal wood sheathing, or they may be braced with rod bracing. Wall openings for storefronts and garages, where present, are framed by post-and-beam framing.
S1 (with Stiff Diaphragms)	These buildings consist of a frame assembly of steel beams and steel columns. Floor and roof framing consists of cast-in-place concrete slabs or metal deck with concrete fill supported on steel beams, open web joists, or steel trusses. Seismic forces are resisted by steel moment frames that develop their stiffness through rigid or semi-rigid beam-column connections. Where all connections are moment-resisting connections, the entire frame participates in seismic force resistance. Where only selected connections are moment-resisting connections, resistance is provided along discrete frame lines. Columns are oriented so that each principal direction of the building has columns resisting forces in strong axis bending. Diaphragms consist of concrete or metal deck with concrete fill and are stiff relative to the frames. Where the exterior of the structure is concealed, walls consist of metal panel curtain walls, glazing, brick masonry, or precast concrete panels. Where the interior of the structure is finished, frames are concealed by ceilings, partition walls, and architectural column furring. The foundation system may consist of a variety of elements.
S1A Steel Moment Frames (with Flexible Diaphragms)	These buildings are similar to S1 buildings, except that diaphragms consist of wood framing; untopped metal deck; or metal deck with lightweight insulating concrete, poured gypsum, or similar nonstructural topping, and are flexible relative to the frames
S2 Steel Braced Frames (with Stiff Diaphragms)	These buildings have a frame of steel columns, beams, and braces. Braced frames develop resistance to seismic forces by the bracing action of the diagonal members. The braces induce forces in the associated beams and columns such that all elements work together in a manner similar to a truss; all element stresses are primarily axial. Diaphragms transfer seismic loads to braced frames. The diaphragms consist of concrete or metal deck with concrete fill and are stiff relative to the frames. The foundation system may consist of a variety of elements. Three variations in the configuration and design of braced frames exist. These variations are

TABLE-1: MODEL BUILDING TYPE (FROM ASCE 41-13 TABLE 3-1)

	<ul style="list-style-type: none"> • Concentrically braced frames: Component work lines intersect at a single point or at multiple points such that the distance between intersecting work lines (or eccentricity) is less than or equal to the width of the smallest component connected at the joint. • Eccentrically braced frames: Component work lines do not intersect at a single point, and the distance between the intersecting work lines (or eccentricity) exceeds the width of the smallest component connecting at the joint. Some of the members are subjected to shear and flexural stresses because of that eccentricity. • Buckling restrained braced frames: Special types of concentrically braced frames where the steel bracing members are encased within a rigid casing that is intended to prevent buckling of the steel brace.
S2A Steel Braced Frames (with Flexible Diaphragms)	These buildings are similar to S2 buildings, except that diaphragms consist of wood framing; untopped metal deck; or metal deck with lightweight insulating concrete, poured gypsum, or similar nonstructural topping, and are flexible relative to the frames
S3 Steel Light Frames	These buildings are pre-engineered and prefabricated with transverse rigid steel frames. They are one-story high. The roof and walls consist of lightweight metal, fiberglass, or cementitious panels. The frames are designed for maximum efficiency, and the beams and columns consist of tapered, built-up sections with thin plates. The frames are built-in segments assembled in the field with bolted or welded joints. Seismic forces in the transverse direction are resisted by the rigid frames. Seismic forces in the longitudinal direction are resisted by wall panel shear elements or rod bracing. Diaphragm forces are resisted by untopped metal deck, roof panel shear elements, or a system of tension-only rod bracing. The foundation system may consist of a variety of elements
S4 Dual Frame Systems with Backup Steel Moment Frames and Stiff Diaphragms	These buildings consist of a frame assembly of steel beams and steel columns. The floor and roof diaphragms consist of cast-in-place concrete slabs or metal deck with or without concrete fill. Framing consists of steel beams, open web joists, or steel trusses. Seismic forces are resisted primarily by either steel braced frames or cast-in-place concrete shear walls in combination with backup steel moment frames. These walls are bearing walls where the steel frame does not provide a complete vertical support system. The steel moment frames are designed to work together with the steel braced frames or concrete shear walls in proportion to their relative rigidity. The steel moment frames provide a secondary seismic-force-resisting system based on the stiffness of the frame and the moment capacity of the beam-column connections. The moment frames are typically capable of resisting 25% of the building's seismic forces. The foundation system may consist of a variety of elements.
S5 Steel Frames with Infill Masonry Shear Walls (with Stiff Diaphragms)	This is an older type of building construction that consists of a frame assembly of steel beams and steel columns. The floor and roof diaphragms consist of cast-in-place concrete slabs or metal deck with concrete fill and are stiff relative to the walls. Framing consists of steel beams, open web joists, or steel trusses. Walls consist of infill panels constructed of solid clay brick, concrete block, or hollow clay tile masonry. Infill walls may completely encase the frame members and present a smooth masonry exterior with no indication of the frame. The seismic performance of this type of construction depends on the interaction between the frame and infill panels. The combined behavior is more like a shear wall structure than a frame structure. Solidly infilled masonry panels form diagonal compression struts between the intersections of the frame members. If the walls are offset from the frame and do not fully engage the frame members, diagonal

TABLE-1: MODEL BUILDING TYPE (FROM ASCE 41-13 TABLE 3-1)

	compression struts do not develop. The strength of the infill panel is limited by the shear capacity of the masonry bed joint or the compression capacity of the strut. The post-cracking strength is determined by an analysis of a moment frame that is partially restrained by the cracked infill. The foundation system may consist of a variety of elements.
S5A Steel Frames with Infill Masonry Shear Walls (with Flexible Diaphragms)	These buildings are similar to S5 buildings, except that diaphragms consist of wood sheathing or untopped metal deck, or have large aspect ratios and are flexible relative to the walls.
C1 Concrete Moment Frames	These buildings consist of a frame assembly of cast-in-place concrete beams and columns. Floor and roof framing consists of cast-in-place concrete slabs, concrete beams, one-way joists, two-way waffle joists, or flat slabs. Seismic forces are resisted by concrete moment frames that develop their stiffness through monolithic beam-column connections. In older construction, or in levels of low seismicity, the moment frames may consist of the column strips of two-way flat slab systems. Modern frames in levels of high seismicity have joint reinforcing, closely spaced ties, and special detailing to provide ductile performance. This detailing is not present in older construction. The foundation system may consist of a variety of elements.
C2 Concrete Shear Walls (with Stiff Diaphragms)	These buildings have floor and roof framing that consists of cast-in-place concrete slabs, concrete beams, one-way joists, two-way waffle joists, or flat slabs. Buildings may also have steel beams, columns, and concrete slabs for the gravity framing. Floors are supported on concrete columns or bearing walls. Seismic forces are resisted by cast-in-place concrete shear walls. In older construction, shear walls are lightly reinforced but often extend throughout the building. In more recent construction, shear walls occur in isolated locations, are more heavily reinforced, and have concrete slabs that are stiff relative to the walls. The foundation system may consist of a variety of elements.
C2A Concrete Shear Walls (with Flexible Diaphragms)	These buildings are similar to C2 buildings, except that diaphragms consist of wood sheathing, or have large aspect ratios, and are flexible relative to the walls.
C3 Concrete Frames with Infill Masonry Shear Walls (with Stiff Diaphragms)	This is an older type of building construction that consists of a frame assembly of cast-in-place concrete beams and columns. The floor and roof diaphragms consist of cast-in-place concrete slabs and are stiff relative to the walls. Walls consist of infill panels constructed of solid clay brick, concrete block, or hollow clay tile masonry. The seismic performance of this type of construction depends on the interaction between the frame and the infill panels. The combined behavior is more like a shear wall structure than a frame structure. Solidly infilled masonry panels form diagonal compression struts between the intersections of the frame members. If the walls are offset from the frame and do not fully engage the frame members, the diagonal compression struts do not develop. The strength of the infill panel is limited by the shear capacity of the masonry bed joint or the compression capacity of the strut. The postcracking strength is determined by an analysis of a moment frame that is partially restrained by the cracked infill. The shear strength of the concrete columns, after racking of the infill, may limit the semiductile behavior of the system. The foundation system may consist of a variety of elements.

TABLE-1: MODEL BUILDING TYPE (FROM ASCE 41-13 TABLE 3-1)

C3A Concrete Frames with Infill Masonry Shear Walls (with Flexible Diaphragms)	These buildings are similar to C3 buildings, except that diaphragms consist of wood sheathing or untopped metal deck or have large aspect ratios and are flexible relative to the walls.
PC1 Precast or Tilt-Up Concrete Shear Walls (with Flexible Diaphragms)	These buildings have precast concrete perimeter wall panels that are typically cast on-site and tilted into place. Floor and roof framing consists of wood joists, glulam beams, steel beams, or open web joists. Framing is supported on interior steel or wood columns and perimeter concrete bearing walls. The floors and roof consist of wood sheathing or untopped metal deck. Seismic forces are resisted by the precast concrete perimeter wall panels. Wall panels may be solid or have large window and door openings that cause the panels to behave more as frames than as shear walls. In older construction, wood framing is attached to the walls with wood ledgers. The foundation system may consist of a variety of elements.
PC1A Precast or Tilt-Up Concrete Shear Walls (with Stiff Diaphragms)	These buildings are similar to PC1 buildings, except that diaphragms consist of precast elements, cast-in-place concrete, or metal deck with concrete fill and are stiff relative to the walls.
PC2 Precast Concrete Frames (with Shear Walls)	These buildings consist of a frame assembly of precast concrete girders and columns with the presence of shear walls. Floor and roof framing consists of precast concrete planks, tees, or double-tees supported on precast concrete girders and columns. Seismic forces are resisted by precast or cast-in-place concrete shear walls. Diaphragms consist of precast elements interconnected with welded inserts, cast-in-place closure strips, or reinforced concrete topping slabs. The foundation system may consist of a variety of elements.
PC2A Precast Concrete Frames (without Shear Walls)	These buildings are similar to PC2 buildings, except that concrete shear walls are not present. Seismic forces are resisted by precast concrete moment frames that develop their stiffness through beam-column joints rigidly connected by welded inserts or cast-in-place concrete closures. Diaphragms consist of precast elements interconnected with welded inserts, cast-in-place closure strips, or reinforced concrete topping slabs. The foundation system may consist of a variety of elements.
RM1 Reinforced Masonry Bearing Walls with Flexible Diaphragms	These buildings have bearing walls that consist of reinforced brick or concrete block masonry. The floor and roof framing consists of steel or wood beams and girders or open web joists and are supported by steel, wood, or masonry columns. Seismic forces are resisted by the reinforced brick or concrete block masonry shear walls. Diaphragms consist of straight or diagonal wood sheathing, plywood, or untopped metal deck and are flexible relative to the walls. The foundation system may consist of a variety of elements.
RM2 Reinforced Masonry Bearing Walls with Stiff Diaphragms	These buildings are similar to RM1 buildings, except that the diaphragms consist of metal deck with concrete fill, precast concrete planks, tees, or double-tees, with or without a cast-in-place concrete topping slab and are stiff relative to the walls. The floor and roof framing is supported on interior steel or concrete frames or interior reinforced masonry walls. The foundation system may consist of a variety of elements.

TABLE-1: MODEL BUILDING TYPE (FROM ASCE 41-13 TABLE 3-1)

URM Unreinforced Masonry Bearing Walls (with Flexible Diaphragms)	These buildings have perimeter bearing walls that consist of unreinforced clay brick, stone, or concrete masonry. Interior bearing walls, where present, also consist of unreinforced clay brick, stone, or concrete masonry. In older construction, floor and roof framing consists of straight or diagonal lumber sheathing supported by wood joists, which, in turn, are supported on posts and timbers. In more recent construction, floors consist of structural panel or plywood sheathing rather than lumber sheathing. The diaphragms are flexible relative to the walls. Where they exist, ties between the walls and diaphragms consist of anchors or bent steel plates embedded in the mortar joints and attached to framing. The foundation system may consist of a variety of elements.
URMA Unreinforced Masonry Bearing Walls (with Stiff Diaphragms)	These buildings are similar to URM buildings, except that the diaphragms are stiff relative to the unreinforced masonry walls and interior framing. In older construction or large, multi-story buildings, diaphragms consist of cast-in-place concrete. In levels of low seismicity, more recent construction consists of metal deck and concrete fill supported on steel framing. The foundation system may consist of a variety of elements.

TABLE-2: STRUCTURAL DEFICIENCIES (FROM ASCE 41-13)

Redundancy	The number of lines of moment frames/shear walls/braced frames in each principal direction is greater than or equal to 2. The number of bays of moment frames in each line is greater than or equal to 2. The number of braced bays in each line is greater than 2.
Weak Story Irregularity	The sum of the shear strengths of the seismic-force-resisting system in any story in each direction is not less than 80% of the strength in the adjacent story above.
Soft Story Irregularity	The stiffness of the seismic-force-resisting system in any story is not less than 70% of the seismic-force-resisting system stiffness in an adjacent story above or less than 80% of the average seismic-force resisting system stiffness of the three stories above.
Mass Irregularity	There is no change in effective mass more than 50% from one story to the next. Light roofs, penthouses, and mezzanines need not be considered.
Vertical Discontinuity	All vertical elements in the seismic-force-resisting system are continuous to the foundation.
Torsional Irregularity	The estimated distance between the story center of mass and the story center of rigidity is less than 20% of the building width in either plan dimension.
Deflection Compatibility	Secondary components have the shear capacity to develop the flexural strength of the components.
Short Column	There are no columns at a level with height/depth ratios less than 50% of the nominal height/depth ratio of the typical columns at that level.
Wood Deterioration	There shall be no signs of decay, shrinkage, spitting, fire damage, or sagging in any of the wood members and none of the metal connection hardware shall be deteriorated, broken or loose.
Steel Deterioration	There shall be no visible rusting, corrosion, cracking, or other deterioration in any of the steel elements or connections in the vertical-or lateral-force-resisting systems.
Concrete Deterioration	There shall be no visible deterioration of concrete or reinforcing steel in any of the vertical-or lateral-force-resisting elements.
Weak Column-Steel	The percentage of strong column-weak beam joints in each story of each line of moment frames is greater than 50 %.
Weak Column-Concrete	The sum of moment capacity of the columns is 20% greater than that of the beams at frame joints.
Cripple Wall Bracing	Cripple walls below first-floor-level shear walls are braced to the foundation with wood structural panels.
Topping Slab	Precast concrete diaphragm elements are interconnected by a continuous reinforced concrete topping slab.
Wall Anchorage	Exterior concrete or masonry walls that are dependent on flexible diaphragms for lateral support are anchored for out-of-plane forces at each diaphragm level steel anchors, reinforcing dowels, or straps that are developed into the diaphragm. Connections have adequate strength to resist the connection force calculated in the Quick Check procedure of Section 4.5.3.7. The connection between the wall panels and the diaphragm does not include cross-grain bending or tension in the wood ledgers.

TABLE-2: STRUCTURAL DEFICIENCIES (FROM ASCE 41-13)

Load Path Deficiency	The structure shall contain complete, well-defined load path, including structural elements and connections, that serves to transfer the internal forces associated with the mass of all elements of the building to the foundation.
URM Wall height to thickness ratio	The height-to-thickness ratio of the shear walls at each story is less than the following: Top story of multi-story building :9 First story of multi-story building: 15 All other conditions: 13
URM parapets	Laterally unsupported unreinforced masonry parapets have height-to-thickness ratios no greater than 1.5
Openings in diaphragm at shear walls	Diaphragm openings immediately adjacent to the shear walls are less than 25% of the wall length.

GLOSSARY OF TERMS

S_{XS}: Short Period Spectral Response Acceleration in Basic Safety Earthquake 2 (E) (BSE-2E), adjusted for site class, for determining level of seismicity

S_{X1}: Spectral Response Acceleration at a one-second period in Basic Safety Earthquake 2 (E) (BSE-2E), adjusted for site class, for determining level of seismicity

BSE-2E: Basic Safety Earthquake-2 for use with Basic Performance Objective for Existing Buildings, taken as the seismic hazard with 5 % probability of exceedance in 50 years, but not greater than the BSE-2N, at a site.

BSE-2N: Basic Safety Earthquake-2 for use with the Basic Performance Objective Equivalent to New Building Standards, taken as the ground shaking based on the Risk-Targeted Maximum Considered Earthquake (MCE_R) per ASCE 7 at the site.

T_L: The long-period transition parameter, to be obtained from UGSG website.

C_s: Seismic Response Coefficient that the building was design to. "0" if default values are preferred.

T_e: Elastic period of the building. "0" if default values are preferred.

Seismic Design Level: Seismic Design Level that the building was design to. Options are HC (High Code), MC (Moderate Code), LC (Low Code), PC (Pre Code). "0" if default value per Table 2.2 is preferred.

A_y: Spectral Acceleration at Yield Point

D_y: Spectral Displacement at Yield Point

A_u: Spectral Acceleration at Ultimate Point

D_u: Spectral Displacement at Ultimate Point

Sd,CD: Median spectral displacement of the Complete Structural Damage

betaCD: Lognormal standard deviation- complete structural damage

P[COL|STR5]: Collapse factor

be: Elastic damping

kappa: Degradation factor

api: Spectral acceleration at the performance point

dpi: Spectral displacement at the performance point

P[STR5]: Probability of Complete Structural Damage (See HAZUS-MH MR1 AEBM Technical and User's Manual- Equation 2-2)

Seismic Risk Rating: P[COL|STR5] x P[STR5]

PRELIMINARY USRC EARTHQUAKE PERFORMANCE RATING

Earthquake performance rating for 10 selected buildings has been established using the procedures of the United States Resiliency Council's (USRC) rating system. The ratings are translation of findings of existing ASCE 31, FEMA 310, or FEMA 178 seismic evaluations that have been performed by various structural engineers and made available by GSA.

USRC requires the ratings to be based on ASCE 31 or ASCE 41-13 seismic evaluations. However, for buildings that have been evaluated to FEMA 310 or FEMA 178 procedures, engineering judgment has been used to convert findings (as necessary) to comply with ASCE 31 performance definitions and requirements.

It is important to note that the three rating dimensions, [Safety, Damage, and Recovery], are greatly influenced by and dependent on detailed information on nonstructural components. Since the existing evaluation reports generally do not provide such detailed information, the ratings end up as either "One Star" or "Not Evaluated". Furthermore, the simplified translation procedure of utilizing ASCE41-13 / ASCE 31 type evaluation statements generally makes conservative assignment of Repair and Recovery ratings. Alternatively, the rigorous evaluation methodology of FEMA P-58 can produce a more refined understanding of earthquake performance of the building, however, this high order evaluation technique is only warranted if a thorough investigation and evaluation of nonstructural components has been performed for the building.

A summary table of sample USRC ratings is provided in following page. The ratings should be considered as preliminary as they are not yet certified by USRC. The back-up data (ASCE 31 Statements) for the ratings is provided in Attachment 3.

BUILDING LOCATION					BUILDING DATA				EVALUATION CRITERIA		EARTHQUAKE PERFORMANCE RATING SYSTEM (EPRS) / USRC RATING (NOT CERTIFIED)														
Region	Location_Code	Building_Name	City	State	Design Year	No. of Stories above ground	No. of Stories below ground	Model Building Type	Evaluation Criteria	Evaluation Level (T1, T2 or T3)															
											Safety Subratings			Repair Cost (Damage) Subratings		Recovery Subratings							Overall Rating		
											Structural Safety Subrating	Geological/Foundation Safety Subrating	Nonstructural Safety Subrating	Geologic Repair Cost Subrating	Structural/nonstructural Repair Cost Subrating	Geologic Recovery Subrating	Structural Recovery Subrating	Initial Nonstructural Recovery Subrating	Size Adjustment	Public Use Adjustment	Content Adjustment	Final Nonstructural Recovery Subrating	Safety Rating	Repair Cost (Damage) Rating	Recovery Rating
																			A	B	A	B	A	B	
4	AL0039	JOHN A CAMPBELL USCT	MOBILE	AL	1932	5		(b) (5)	ASCE 31	T1	(b) (5)														
4	GA0118	FB-PO-CT EAST BUILDING	ROME	GA	1974	3	0		ASCE 31	T2-LDP															
4	SC0018	J. BRATTON DAVIS US BKRPCY CH	COLUMBIA	SC	1936	5	1		ASCE 31	T1															
8	CO0039	BYRON G.ROGERS COURTHOUSE	DENVER	CO	1965	5			FEMA 310	T2															
8	UT0042	FB	SAINT GEORGE	UT	1967	1			ASCE 31	T1															
9	CA0260	ROBERT F. PECKHAM COURTHOUSE	SAN JOSE	CA	1982	5	1		FEMA 310 &	T3- NSP															
9	CA0269	PASEO INT'L - OTAY MESA	SAN DIEGO	CA	1985	1			FEMA 310	T2															
10	AK0013	FED BLDG,CRTH, And USPO	JUNEAU	AK	1968	11	1		FEMA 310	T2-LSP															
9		LA FEDERAL COURTHOUSE	LOS ANGELES	CA	2014	11	1		Benchmark (IBC 2009)																
9		50 UN PLAZA (LS Retrofit in 2010)	SAN FRANCISCO	CA	1932	6	1		ASCE 31	T1															

Notes:
1) U= Unknown, NR = No rating
2) EPRS (SEAONC BRC, 2015) has been developed by the Structural Engineers of Northern California (SEAONC) Building Ratings Committee (BRC). The EPRS ratings are based on findings of ASCE 31 seismic evaluations.
3) The United States Resiliency Council (USRC) ratings are assumed to be similar to the EPRS ratings (exception: USRC 5-Star ratings are not granted without more advance analysis). The USRC ratings presented here have not been reviewed or certified by USRC.
4) Rating is based on confirming brace slenderness, however the report is silent about this issue

Following are definitions of the three rating dimensions/levels:

Safety Rating

The SAFETY rating dimension addresses thresholds for the building in terms of the potential for people in the building to get out after an earthquake event and avoid bodily injuries or loss of life during the event. A safety rating is required in all building evaluations.

Safety Rating	
*****	Injuries and blocking of exit paths unlikely Expected performance results in conditions that are unlikely to cause injuries or to keep people from exiting the building.
****	Serious injuries unlikely Expected performance results in conditions that are unlikely to cause serious injuries.
***	Loss of life unlikely Expected performance results in conditions that are unlikely to cause loss of life.
**	Loss of life possible in isolated locations Expected performance results in conditions associated with partial collapse or falling objects that have potential to cause loss of life at locations within or around the building.
*	Loss of life likely in the building Expected performance results in conditions associated with building collapse, which has a high potential to cause loss of life within or around the building.

Damage Rating:

The DAMAGE rating dimension reflects an estimate of the cost to repair the building after an event, such that it can continue to be used as it was at the time the rating was last issued.

DAMAGE is defined as a percentage of the building's overall replacement cost, a common insurance concept measuring how much it would cost to construct a new building approximately the same as it was prior to the event. DAMAGE includes the cost of damage to all structural, architectural, mechanical, electrical and plumbing components of a building but does not include the cost of damage to the contents. Contents values may vary depending on how the building was being used at the time of the event. Separately, content damage can be estimated and reported once the contents are defined. DAMAGE is furthermore determined without consideration of overall market conditions in effect following the event, such as post-event increases in local construction costs, and it does not include factors such as business interruption associated with loss of use or occupancy restrictions, design fees, permit fees, historic preservation, or mandatory upgrades triggered by building code regulations.

Damage Rating	
*****	Minimal Damage Repair Cost likely less than 5% of building replacement cost.
****	Moderate Damage Repair Cost likely less than 10% of building replacement cost.
***	Significant Damage Repair Cost likely less than 20% of building replacement cost.
**	Substantial damage Repair Cost likely less than 40% of building replacement cost.
*	Severe Damage Repair Cost likely greater than 40% of building replacement cost.
NE	Not Evaluated Repair Cost has not been evaluated.

Recovery Rating:

The RECOVERY dimension is an estimate of the time until a property owner or tenant is able to enter and use the building for its basic intended functions.

A RECOVERY rating represents a minimum timeframe to carry out needed repair and to remove major safety hazards and obstacles to occupancy and use. This rating does not address several other factors that can delay the time to regain function, including but not limited to: the condition of external infrastructure (e.g. utilities, transportation) that provide access and services to the building; damage or the post-event state of building contents; or the condition of adjacent buildings.

The complexity and time needed to restore a building to usable condition can increase quickly in relation to the degree of damage. Delays in design, financing, and construction may include time until arrival of special-order equipment or materials, increased prices, a lack of available local design professionals or contractors in a community where many buildings have been damaged, and longer than usual permitting and inspection wait times. Separately, these factors can be estimated and reported, but the actual total time impact of these factors is highly uncertain.

Recovery Rating	
*****	Immediately to days Expected performance will likely result in people being able to quickly re-enter and resume basic functionality of the building from immediately to a few days, excluding external factors.
****	Within days to weeks Expected performance may result in delay of basic functionality for days to weeks, excluding external factors.
***	Within weeks to months Expected performance may result in delay of basic functionality for weeks to months, excluding external factors.

Recovery Rating	
**	Within months to a year Expected performance may result in delay of basic functionality for months to a year.
*	More than one year Expected performance may result in delay of basic functionality for at least one year or more.
NE	Not Evaluated Time to regain basic function has not been evaluated.



ATTACHMENT 1

HAZUS AEBM PARAMETERS FOR CALIFORNIA

APPENDIX H TO CHAPTER 6

HAZUS AEBM REGULATIONS

6-A1 HAZUS AEBM technology. The Federal Emergency Management Agency (FEMA)/National Institute of Building Sciences (NIBS) Multi-Hazard Loss Estimation Technology (HAZUS-MH MR2) and, specifically, the HAZUS Advanced Engineering Building Module (AEBM) are used by the Office with building-specific parameters, described in this appendix, to evaluate the Probability of Collapse of SPC-1 buildings.

6-A2 Probability of collapse. The Probability of Collapse, $P[\text{COL}]$, is calculated by Equation (A6-1):

$$P[\text{COL}] = P[\text{COL}|\text{STR}_s] \times P[\text{STR}_s] \quad (\text{A6-1})$$

where:

$P[\text{COL}|\text{STR}_s]$ = collapse factor of the HAZUS AEBM, as modified herein, and

$P[\text{STR}_s]$ = probability of Complete Structural Damage, based on HAZUS AEBM methods and parameters, as modified herein.

6-A3 Building-specific properties. Building-specific properties are based on the building type (structural system), or Model Building Type (MBT), building height (number of stories above seismic base), building age (pre-1933, 1933 – 1961 or post-1961 design vintage), availability of materials testing data, and Significant Structural Deficiencies.

Table A6-1 lists Significant Structural Deficiencies. Table A6-1 includes older buildings (pre-1933 buildings) and buildings that do not have available materials test data, and treats these conditions as Significant Structural Deficiencies.

SPC-1 buildings with no Significant Structural Deficiencies are evaluated using “Baseline” values of building-specific properties. SPC-1 buildings with one or more Significant Structural Deficiencies are evaluated using Sub-Baseline (SubBase), or Ultra-Sub-Baseline (USB) building-specific properties, as specified in Table A6-1.

Building-specific properties include parameters related to (1) building capacity, (2) building response, (3) Complete Structural Damage, and (4) building collapse. Appendix H Sections 6-A4 through 6-A7, define the parameters of interest related to building capacity, building response, Complete Structural Damage and building collapse, respectively, and specify appropriate values of these parameters.

6-A4. Building capacity. Building-specific capacity properties of interest include the yield capacity control point (D_y, A_y) and the ultimate capacity control point (D_u, A_u), as calculated by Equations (A6-2 through A6-5, respectively):

$$A_y = C_s \cdot \gamma / \alpha_1 \quad (\text{A6-2})$$

$$D_y = 9.8 \cdot A_y \cdot T_e^2 \quad (\text{A6-3})$$

$$A_u = \lambda \cdot A_y \quad (\text{A6-4})$$

$$D_u = \lambda \cdot \mu \cdot D_y \quad (\text{A6-5})$$

where:

C_s = seismic design coefficient — values of C_s are given in Tables A6-2a and A6-2b, respectively,

α_1 = modal weight factor, Alpha 1 — values of α_1 are given in Table A6-4,

T_e = elastic period, in seconds — values of T_e are given in Table A6-3,

γ = yield strength factor, Gamma — values of γ are given in Table A6-5,

λ = “overstrength” factor, Lambda — values of λ are given in Table A6-5, and

μ = “ductility” factor, Mu — values of μ are given in Table A6-6.

6-A5 Building response. Building-specific response parameters of interest include the elastic damping factor, β_e , and the degradation factor, Kappa. Values of β_e are given in Table A6-7 and values of the Kappa factor are given in Table A6-8.

6-A-6 Complete structural damage. Building-specific damage parameters of interest include the median spectral displacement of the Complete Structural Damage state, S_{dC} , and the associated lognormal standard deviation (Beta) factor, β_C . Values of β_C are given in Table A6-11. Median spectral displacement at the Complete Structural Damage state, S_{dC} , is calculated using Equation (A6-6):

$$S_{dC} = \Delta_C \cdot H_R \cdot \alpha_2 / \alpha_3 \quad (\text{A6-6})$$

where:

Δ_C = interstory drift ratio (of the story with maximum drift) at the threshold of Complete Structural Damage — values of Δ_C are given in Table A6-9,

H_R = height of building at the roof level, in inches — default values of H_R are given in Table A6-3 as a function of the number of stories above grade,

α_2 = modal height factor, Alpha 2 — values of α_2 are given in Table A6-4, and

α_3 = modal shape factor, Alpha 3, relating maximum-story drift and roof drift, values of α_3 are given in Table A6-10.

6-A-7 Building collapse. Building-specific values of the collapse factor, $P[\text{COL}|\text{STR}_s]$, that describe the fraction of the building likely to be collapsed given that the building has reached the Complete Structural Damage state, STR_s , are given in Table A6-12.

TABLE A6-1—SIGNIFICANT STRUCTURAL DEFICIENCY MATRIX

SIGNIFICANT STRUCTURAL DEFICIENCY/CONDITION ¹	CAPACITY		RESPONSE		STRUCTURAL DAMAGE - COMPLETE DAMAGE STATE						COLLAPSE	
	Over-Strength		Duration		Fragility Curve Median ⁴				Fragility Curve Variability - Beta Factor (β_c)		Collapse Factor (P[COL STR _s])	
	Gamma and Lambda Factors		Degradation (Kappa) Factor		Maximum Story Drift Ratio (Δ_c)		Mode Shape (Alpha 3) Factor					
	SubBase	USB	SubBase	USB ⁵	SubBase	USB	SubBase	USB ⁶	SubBase	USB ⁵	SubBase	USB ⁶
Age (Pre-1933 buildings)	X	X ⁷										
Materials Testing (None)	X								X			
No Redundancy									X		X	X ⁶
Weak Story Irregularity					X		X	X ⁶			X	X ⁶
Soft Story Irregularity					X		X	X ⁶			X	X ⁶
Mass Irregularity					X							
Vertical Discontinuity	X				X							
Torsional Irregularity						X					X	X ⁶
Deflection Incompatibility ²					X				X		X	X ⁶
Short Column ³	X					X						
Wood Deterioration		X	X									
Steel Deterioration		X	X									
Concrete Deterioration		X	X									
Weak Column-Steel	X				X							
Weak Column-Concrete	X		X		X							
No Cripple Wall Bracing					X		X	X ⁶			X	X ⁶
Topping Slab	X		X						X		X	X ⁶
Inadequate Wall Anchorage/Parapet Bracing		X							X			
Load Path/Diaphragm Openings									X		X	X ⁶
URM Wall Thickness Ratio											X	X ⁶

¹ Sub-Baseline (SubBase) and Ultra-Sub-Baseline (USB) properties are based on one, or more, significant structural deficiencies.

² The Deflection Incompatibility structural deficiency applies only to concrete systems (C1, C2 and C3).

³ The Short Column structural deficiency applies only to concrete and masonry systems (C1, C2, C3, RM1 and RM2).

⁴ Effects of deficiencies related to drift and mode shape limited to a combined factor of 5 reduction in Complete median (of HAZUS default value).

⁵ Grey shading indicates USB performance is not defined/used for deficiencies related to degradation (kappa) and fragility curve (beta) factors.

⁶ USB performance required for systems with multiple, SubBase deficiencies related to either the mode shape (Alpha 3) factor or the collapse rate.

⁷ USB performance required for pre-1933 buildings with other over-strength-related deficiencies (else use SubBase performance for pre-1933 buildings).

TABLE A6-2a—SEISMIC DESIGN COEFFICIENT, C_s , UBC SEISMIC ZONE 4

No. of Stories	Seismic Design Coefficient, C_s - UBC Seismic Zone 4 Locations (Zone 3 of older editions of the UBC)					
	Structural System (MBT)					
	S1 and C1		S2, S3, S4, S5, C2 and C3 (MH)		W1, W2, PC1, PC2, RM1, RM2, URM	
	Post-61	Pre-61	Post-61	Pre-61	Post-61	Pre-61
1	0.072	0.109	0.100	0.109	0.133	0.109
2	0.057	0.092	0.100	0.092	0.133	0.092
3	0.050	0.080	0.086	0.080	0.114	0.080
4	0.045	0.071	0.078	0.071	0.104	0.071
5	0.042	0.063	0.073	0.063	0.098	0.063
6	0.040	0.057	0.069	0.057	0.092	0.057
7	0.038	0.052	0.066	0.052	0.088	0.052
8	0.036	0.048	0.064	0.048	0.085	0.048
9	0.035	0.044	0.062	0.044	0.082	0.044
10	0.034	0.041	0.060	0.041	0.080	0.041
11	0.032	0.039	0.058	0.039	0.078	0.039
12	0.032	0.036	0.057	0.036	0.076	0.036
13	0.031	0.034	0.056	0.034	0.074	0.034
14	0.030	0.032	0.055	0.032	0.073	0.032
15	0.029	0.031	0.054	0.031	0.072	0.031
16	0.029	0.029	0.053	0.029	0.070	0.029
17	0.028	0.028	0.052	0.028	0.069	0.028
18	0.028	0.027	0.051	0.027	0.068	0.027
19	0.027	0.026	0.051	0.026	0.067	0.026
> = 20	0.027	0.024	0.050	0.024	0.067	0.024

Note (GSA SRR): For Post 1975 Buildings, "High-Code" values from Table 5-4 of HAZUS MR-4 TECHNICAL MANUAL is used.

TABLE A6-2b—SEISMIC DESIGN COEFFICIENT, C_s UBC SEISMIC ZONE 3

No. of Stories	Seismic Design Coefficient, C_s - UBC Seismic Zone 3 Locations (Zone 2 of older editions of the UBC)					
	Structural System (MBT)					
	S1 and C1		S2, S3, S4, S5, C2 and C3 (MH)		W1, W2, PC1, PC2, RM1, RM2, URM	
	Post-61	Pre-61	Post-61	Pre-61	Post-61	Pre-61
1	0.036	0.055	0.050	0.055	0.066	0.055
2	0.028	0.046	0.050	0.046	0.066	0.046
3	0.025	0.040	0.043	0.040	0.057	0.040
4	0.023	0.035	0.039	0.035	0.052	0.035
5	0.021	0.032	0.037	0.032	0.049	0.032
6	0.020	0.029	0.035	0.029	0.046	0.029
7	0.019	0.026	0.033	0.026	0.044	0.026
8	0.018	0.024	0.032	0.024	0.043	0.024
9	0.017	0.022	0.031	0.022	0.041	0.022
10	0.017	0.021	0.030	0.021	0.040	0.021
11	0.016	0.019	0.029	0.019	0.039	0.019
12	0.016	0.018	0.029	0.018	0.038	0.018
13	0.015	0.017	0.028	0.017	0.037	0.017
14	0.015	0.016	0.027	0.016	0.036	0.016
15	0.015	0.015	0.027	0.015	0.036	0.015
16	0.014	0.015	0.026	0.015	0.035	0.015
17	0.014	0.014	0.026	0.014	0.035	0.014
18	0.014	0.013	0.026	0.013	0.034	0.013
19	0.014	0.013	0.025	0.013	0.034	0.013
> = 20	0.013	0.012	0.025	0.012	0.033	0.012

Note (GSA SRR): For Post 1975 Buildings, "Moderate-Code" values from Table 5-4 of HAZUS MR-4 TECHNICAL MANUAL is used.

TABLE A6-3—DEFAULT BUILDING HEIGHTS AND ELASTIC PERIODS

No. of Stories	DEFAULT BUILDING HEIGHT, H_R , AND ELASTIC PERIOD, T_e , PROPERTIES													
	Structural System (MBT)													
	W1 AND W2 (MH)		S1		C1		S2		S4 and S5		C2, C3, PC2, RM1, RM2, URM		S3 and PC1	
	H_R (ft)	T_e (sec)	H_R (ft)	T_e (sec)	H_R (ft)	T_e (sec)	H_R (ft)	T_e (sec)	H_R (ft)	T_e (sec)	H_R (ft)	T_e (sec)	H_R (ft)	T_e (sec)
1	14	0.35	14	0.40	12	0.40	14	0.40	14	0.35	12	0.35	15	0.35
2	24	0.38	24	0.50	20	0.40	24	0.43	24	0.35	20	0.35	25	0.39
3	34	0.49	36	0.69	30	0.48	36	0.59	36	0.44	30	0.39	35	0.50
4	44	0.60	48	0.87	40	0.62	48	0.73	48	0.55	40	0.48		
5	54	0.70	60	1.04	50	0.76	60	0.86	60	0.65	50	0.57		
6			72	1.20	60	0.89	72	0.99	72	0.74	60	0.65		
7			84	1.36	70	1.03	84	1.11	84	0.84	70	0.73		
8			96	1.51	80	1.16	96	1.22	96	0.92	80	0.81		
9			108	1.66	90	1.29	108	1.34	108	1.01	90	0.88		
10			120	1.81	100	1.41	120	1.45	120	1.09	100	0.95		
11			132	1.95	110	1.54	132	1.55	132	1.17	110	1.02		
12			144	2.09	120	1.67	144	1.66	144	1.25	120	1.09		
13			156	2.23	130	1.79	156	1.76	156	1.33	130	1.16		
14			168	2.36	140	1.91	168	1.86	168	1.40	140	1.23		
15			180	2.50	150	2.04	180	1.96	180	1.48	150	1.29		
16			192	2.63	160	2.16	192	2.06	192	1.55	160	1.35		
17			204	2.76	170	2.28	204	2.15	204	1.62	170	1.42		
18			216	2.89	180	2.40	216	2.25	216	1.70	180	1.48		
19			228	3.02	190	2.52	228	2.34	228	1.77	190	1.54		
> = 20			240	3.14	200	2.64	240	2.43	240	1.84	200	1.60		

TABLE A6-4—ALPHA 1 AND ALPHA 2, MODAL FACTORS

No. of Stories	ALPHA 1 (α_1) - MODAL WEIGHT FACTOR				ALPHA 2 (α_2) - MODAL HEIGHT FACTOR	
	Structural System (MBT)				Structural System (MBT)	
	S1 and C1	W1, W2, S2, S3, S4, C2, C3, PC2, RM1 and RM2	PC1 and URM	MH	MH	All Systems (except MH)
1	0.75	0.8	0.75	1.00	1.00	0.75
2	0.75	0.8	0.75			0.75
3	0.75	0.8	0.75			0.75
4	0.75	0.8				0.75
5	0.75	0.8				0.75
6	0.73	0.79				0.72
7	0.71	0.78				0.69
8	0.69	0.77				0.66
9	0.67	0.76				0.63
10	0.65	0.75				0.60
11	0.65	0.75				0.60
12	0.65	0.75				0.60
13	0.65	0.75				0.60
14	0.65	0.75				0.60
> = 15	0.65	0.75				0.60

TABLE A6-5—LAMBDA FACTOR

No. of Stories	Gamma Factor (γ)	LAMBDA FACTOR (γ)														
		Baseline Performance					SubBase Performance					USB Performance				
		Structural System (MBT)					Structural System (MBT)					Structural System (MBT)				
		W1, S1, C1	W2, C2	S4, C3	Other MBT	PC1, URM	W1, S1, C1	W2, C2	S4, C3	Other MBT	PC1, URM	W1, S1, C1	W2, C2	S4, C3	Other MBT	PC1, URM
1	2.70	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
2	2.50	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
3	2.25	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
4	2.00	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
5	1.88	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
6	1.80	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
7	1.75	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
8	1.71	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
9	1.69	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
10	1.67	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
11	1.65	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
12	1.65	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
13	1.65	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
14	1.65	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17
>= 15	1.65	2.00	2.00	1.83	1.67	1.33	1.75	1.75	1.63	1.50	1.25	1.50	1.50	1.42	1.33	1.17

TABLE A6-6—DUCTILITY FACTOR M_u

NO. OF STORIES	M_u (μ) FACTOR (All Systems)
1	6.00
2	6.00
3	4.94
4	4.41
5	4.07
6	3.82
7	3.63
8	3.48
9	3.35
10	3.24
11	3.15
12	3.07
13	3.00
14	3.00
>= 15	3.00

TABLE A6-7—ELASTIC DAMPING

STRUCTURAL SYSTEM (MBT)	β_E ELASTIC DAMPING (% of Critical)
S1, S2, S3 and S4	5
C1, C2, PC1 and PC2	7
RM1 and RM2	7
C3 and S5	7
W1 and W2	10

TABLE A6-8—DEGRADATION KAPPA FACTORS

SCENARIO EARTHQUAKE CRITERIA		DEGRADATION (Kappa) FACTORS - (κ_S , κ_M and κ_L)			
Minimum Distance Site to Fault ¹ (km)	Maximum Magnitude ²	Baseline Performance		SubBase Performance	
		Post-61	Pre-1961	Post-61	Pre-1961
< 5	All	0.8	0.7	0.6	0.5
5 - 10	$M_{max} \leq 6.5$	0.8	0.7	0.6	0.5
5 - 10	$M_{max} > 6.5$	0.7	0.6	0.5	0.4
10 - 25	$M_{max} \leq 6.5$	0.7	0.6	0.5	0.4
10 - 25	$7.0 \geq M_{max} > 6.5$	0.6	0.5	0.4	0.3
10 - 25	$M_{max} < 7.0$	0.5	0.4	0.3	0.2
25 - 50	$M_{max} \leq 7.0$	0.5	0.4	0.3	0.2
25 - 50	$M_{max} > 7.0$	0.4	0.3	0.2	0.1
> 50	All	0.4	0.3	0.2	0.1

1. Minimum distance to the fault that controls 1-second period ground motions at the building site.

2. Maximum magnitude (M_{max}) of fault that controls 1-second ground motions at the building site.

Note (GSA SRR): For Post-1975 buildings, Table 4.7 of VA Phase 1 Report is used.

TABLE A6-9—INTERSTORY DRIFT RATIO — MEDIAN COMPLETE STRUCTURAL DAMAGE

STRUCTURAL SYSTEM (MBT)	INTERSTORY DRIFT RATIO (max story) - MEDIAN COMPLETE STRUCTURAL DAMAGE (Δ_c)					
	Baseline Performance		SubBase Performance		USB Performance	
	Post-61	Pre-61	Post-61	Pre-61	Post-61	Pre-61
W1 and W2 (MH)	0.075	0.075	0.060	0.060	0.038	0.038
S1, C1, S2 and C2	0.060	0.050	0.050	0.040	0.030	0.025
S3, S4, PC1, PC2, RM1 and RM2	0.053	0.044	0.044	0.035	0.027	0.022
S5, C3 and URM		0.035		0.028		0.018

Note GSA SRR): For Post-1975 buildings, Table 5.3 a to 5.3 h of VA Phase 1 Report is used.

TABLE A6-10—ALPHA 3 (α_3) MODAL SHAPE FACTOR

No. of Stories	ALPHA 3 (α_3) MODAL SHAPE FACTOR - RATION OF MAXIMUM INTERSTORY DRIFT TO AVERAGE INTERSTORY DRIFT								
	When Combined with Baseline Interstory Drift Ratios (Table A6-9)			When Combined with SubBase Interstory Drift Ratios (Table A6-9)			When Combined with USB Interstory Drift Ratios (Table A6-9)		
	Baseline Performance	SubBase Performance	USB Performance	Baseline Performance	SubBase Performance	USB Performance	Baseline Performance	SubBase Performance	USB Performance
1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2	1.21	1.62	2.03	1.21	1.62	2.03	1.21	1.62	2.03
3	1.35	2.04	2.73	1.35	2.04	2.73	1.35	2.04	2.50
4	1.45	2.36	3.27	1.45	2.36	3.27	1.45	2.36	2.50
5	1.54	2.63	3.72	1.54	2.63	3.72	1.54	2.50	2.50
6	1.62	2.87	4.11	1.62	2.87	4.00	1.62	2.50	2.50
7	1.69	3.07	4.46	1.69	3.07	4.00	1.69	2.50	2.50
8	1.75	3.26	4.77	1.75	3.26	4.00	1.75	2.50	2.50
9	1.81	3.43	5.00	1.81	3.43	4.00	1.81	2.50	2.50
10	1.86	3.59	5.00	1.86	3.59	4.00	1.86	2.50	2.50
11	1.91	3.73	5.00	1.91	3.73	4.00	1.91	2.50	2.50
12	1.96	3.87	5.00	1.96	3.87	4.00	1.96	2.50	2.50
13	2.00	4.00	5.00	2.00	4.00	4.00	2.00	2.50	2.50
14	2.04	4.12	5.00	2.04	4.00	4.00	2.04	2.50	2.50
> = 15	2.08	4.23	5.00	2.08	4.00	4.00	2.08	2.50	2.50

TABLE A6-11—LOGNORMAL STANDARD DEVIATION (BETA) VALUES — COMPLETE STRUCTURAL DAMAGE

NO. OF STORIES	LOGNORMAL STANDARD DEVIATION (BETA) VALUES — COMPLETE STRUCTURAL DAMAGE (β_c)			
	Baseline Performance		SubBase Performance	
	Post-61	Pre-61	Post-61	Pre-61
1	0.85	0.90	0.95	1.00
2	0.85	0.90	0.95	1.00
3	0.85	0.90	0.95	1.00
4	0.84	0.89	0.94	0.99
5	0.83	0.88	0.93	0.98
6	0.82	0.87	0.92	0.97
7	0.81	0.86	0.91	0.96
8	0.80	0.85	0.90	0.95
9	0.79	0.84	0.89	0.94
10	0.78	0.83	0.88	0.93
11	0.77	0.82	0.87	0.92
12	0.76	0.81	0.86	0.91
13	0.75	0.80	0.85	0.90
14	0.75	0.80	0.85	0.90
> = 15	0.75	0.80	0.85	0.90

Note (GSA SRR): For Post -1975 buildings, Table 5.5 c of VA Phase 1 Report is used.

TABLE A6-12—COLLAPSE FACTOR

STRUCTURAL SYSTEM (MBT)	COLLAPSE FACTOR - LIKELIHOOD OF COLLAPSE GIVEN COMPLETE STRUCTURAL DAMAGE - $P[COL STR_g]$		
	Baseline Performance	SubBase Performance	USB Performance
W1 and W2	0.05	0.10	0.05 0.4 See Note
S1, S2, S3, S4 and S5	0.08	0.15	0.30
C1, C2 and C3	0.13	0.25	0.50
RM1 and RM2	0.13	0.25	0.50
PC1 and PC2	0.15	0.30	0.60

Note (GSA SRR): For W1 and W2 MBT's, Collapse Factor = 0.4. This is to capture multistory wood buildings with weak story deficiency.



ATTACHMENT 2
**HAZUS AEBM PARAMETERS FOR STATES
OTHER THAN CALIFORNIA**

HAZUS AEBM USER MANUAL

(HAZUS MR-4 TECHNICAL MANUAL)

Table 5.4 Code Building Capacity Parameters - Design Strength (C_s)

Building Type	Seismic Design Level (Fraction of Building Weight)			
	High-Code	Moderate-Code	Low-Code	Pre-Code
W1	0.200	0.150	0.100	0.100
W2	0.200	0.100	0.050	0.050
S1L	0.133	0.067	0.033	0.033
S1M	0.100	0.050	0.025	0.025
S1H	0.067	0.033	0.017	0.017
S2L	0.200	0.100	0.050	0.050
S2M	0.200	0.100	0.050	0.050
S2H	0.150	0.075	0.038	0.038
S3	0.200	0.100	0.050	0.050
S4L	0.160	0.080	0.040	0.040
S4M	0.160	0.080	0.040	0.040
S4H	0.120	0.060	0.030	0.030
S5L			0.050	0.050
S5M			0.050	0.050
S5H			0.038	0.038
C1L	0.133	0.067	0.033	0.033
C1M	0.133	0.067	0.033	0.033
C1H	0.067	0.033	0.017	0.017
C2L	0.200	0.100	0.050	0.050
C2M	0.200	0.100	0.050	0.050
C2H	0.150	0.075	0.038	0.038
C3L			0.050	0.050
C3M			0.050	0.050
C3H			0.038	0.038
PC1	0.200	0.100	0.050	0.050
PC2L	0.200	0.100	0.050	0.050
PC2M	0.200	0.100	0.050	0.050
PC2H	0.150	0.075	0.038	0.038
RM1L	0.267	0.133	0.067	0.067
RM1M	0.267	0.133	0.067	0.067
RM2L	0.267	0.133	0.067	0.067
RM2M	0.267	0.133	0.067	0.067
RM2H	0.200	0.100	0.050	0.050
URML			0.067	0.067
URMM			0.067	0.067
MH	0.100	0.100	0.100	0.100

< 5	All		1	0.9	0.8	0.7	0.6	0.5	0.4
5 - 10	$M_{\max} \leq 6.5$		2	0.9	0.8	0.7	0.6	0.5	0.4
5 - 10	$M_{\max} > 6.5$		3	0.8	0.7	0.6	0.5	0.4	0.3
10 - 25	$M_{\max} \leq 6.5$		4	0.8	0.7	0.6	0.5	0.4	0.3
10 - 25	$7.0 \geq M_{\max} > 6.5$		5	0.7	0.6	0.5	0.4	0.3	0.2
10 - 25	$M_{\max} > 7.0$	VH, H	6	0.6	0.5	0.4	0.3	0.2	0.1
25 - 50	$M_{\max} \leq 7.0$		7	0.6	0.5	0.4	0.3	0.2	0.1
25 - 50	$M_{\max} > 7.0$	MH	8	0.5	0.4	0.3	0.2	0.1	0.1
> 50	All	L, ML	9	0.5	0.4	0.3	0.2	0.1	0.1

1. Minimum distance to the fault that controls short-period ground motions (used to determine response of MBTs with $T_e < 0.8$ Ts) or 1-second response (used to determine response of MBTs with $T_e > 0.8$ Ts) at the building site.
2. Maximum magnitude (M_{\max}) of fault that controls short-period or 1-second ground motions at the building site
3. Use VA Seismicity Index (Table 1.1) when scenario properties unknown.

C2	0.005	0.013	0.038	0.100
S3, S4, PC1, PC2, RM1, RM2	0.005	0.010	0.030	0.088
S5, C3, URM	0.003	0.006	0.015	0.035

Table 5-3b Values of median structural drift ratios as a function of model building type, buildings with Baseline performance and High Code seismic design.

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1, W2	0.004	0.012	0.040	0.100
S1	0.006	0.012	0.030	0.080
C1, S2	0.005	0.010	0.030	0.080
C2	0.004	0.010	0.030	0.080
S3, S4, PC1, PC2, RM1, RM2	0.004	0.008	0.024	0.070
S5, C3, URM	0.003	0.006	0.015	0.035

Table 5-3c Values of median structural drift ratios as a function of model building type for buildings with Baseline performance and Moderate Code seismic design (and SubBase performance/High Code design)

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1, W2	0.004	0.010	0.031	0.075
S1	0.006	0.010	0.024	0.060
C1, S2	0.005	0.009	0.023	0.060
C2	0.004	0.008	0.023	0.060
S3, S4, PC1, PC2, RM1, RM2	0.004	0.007	0.019	0.053
S5, C3, URM	0.003	0.006	0.015	0.035

Table 5-3d Values of median structural drift ratios as a function of model building type for buildings with Baseline performance and Low Code seismic design (and SubBase performance/Moderate Code design)

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1, W2	0.004	0.010	0.025	0.060
S1	0.006	0.010	0.020	0.050
C1, S2	0.005	0.008	0.020	0.050
C2	0.004	0.008	0.020	0.050
S3, S4, PC1, PC2, RM1, RM2	0.004	0.006	0.016	0.044
S5, C3, URM	0.003	0.006	0.015	0.035

Table 5-3e Values of median structural drift ratios as a function of model building type for buildings with Baseline performance and Pre-Code seismic design (and SubBase performance/Low Code design or USB performance/High Code design)

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1,W2	0.003	0.008	0.020	0.050
S1	0.005	0.008	0.016	0.040
C1, S2	0.004	0.006	0.016	0.040
C2	0.003	0.006	0.016	0.040
S3, S4, PC1, PC2, RM1, RM2	0.003	0.005	0.013	0.035
S5, C3, URM	0.002	0.005	0.012	0.028

Table 5-3f Values of median structural drift ratios as a function of model building type for buildings with SubBase performance and Pre-Code seismic design (and USB performance/Moderate Code design)

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1,W2	0.003	0.008	0.018	0.045
S1	0.005	0.008	0.012	0.030
C1, S2	0.004	0.006	0.012	0.030
C2	0.003	0.006	0.012	0.030
S3, S4, PC1, PC2, RM1, RM2	0.003	0.005	0.010	0.027
S5, C3, URM	0.002	0.005	0.008	0.018

Table 5-3g Values of median structural drift ratios as a function of model building type for buildings with USB performance and Low Code seismic design

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1,W2	0.003	0.008	0.015	0.038
S1	0.005	0.008	0.010	0.025
C1, S2	0.004	0.006	0.010	0.025
C2	0.003	0.006	0.010	0.025
S3, S4, PC1, PC2, RM1, RM2	0.003	0.005	0.008	0.022
S5, C3, URM	0.002	0.005	0.008	0.018

Table 5-3h Values of median structural drift ratios as a function of model building type for buildings with USB performance and Pre-Code seismic design

Model Building Type	Structural Damage State			
	Slight	Moderate	Extensive	Complete
W1,W2	0.003	0.008	0.015	0.030
S1	0.005	0.008	0.010	0.020
C1, S2	0.004	0.006	0.010	0.020
C2	0.003	0.006	0.010	0.020
S3, S4, PC1, PC2, RM1, RM2	0.003	0.005	0.008	0.018
S5, C3, URM	0.002	0.005	0.008	0.014

9	0.74	0.79	0.84	0.89	0.84	0.89	0.94	0.99
10	0.73	0.78	0.83	0.88	0.83	0.88	0.93	0.98
11	0.72	0.77	0.82	0.87	0.82	0.87	0.92	0.97
12	0.71	0.76	0.81	0.86	0.81	0.86	0.91	0.96
13	0.70	0.75	0.80	0.85	0.80	0.85	0.90	0.95
14	0.70	0.75	0.80	0.85	0.80	0.85	0.90	0.95
15	0.70	0.75	0.80	0.85	0.80	0.85	0.90	0.95
Factor	Approximate Value or Range of Contributing Factor							
κ	0.5-0.8	0.4-0.7	0.3-0.6	0.2-0.5	0.4-0.7	0.3-0.6	0.2-0.5	0.1-0.4
β_c	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
$\beta_{T,ds}$	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5



ATTACHMENT 3
USRC RATING – ASCE 31 EVALUATION STATEMENTS

Building: AL0039 JOHN A CAMPBELL USCT

URMA (Unreinforced Masonry Bearing Walls-Stiff Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C	C			
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C	NA for LS in low seismicity			
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C	NA for LS in low seismicity			
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C	NA for LS in low seismicity			
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C	NA for LS in low seismicity			
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C	NA for LS in low seismicity			
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C	NA for LS in low seismicity			
4.3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C	NA for LS in low seismicity			
4.4.2.1.1	Basic	Lateral Force Resisting System	Shear Walls	REDUNDANCY, shear walls	C	C	C	C	NA for LS in low seismicity			
4.4.2.5.1	Basic	Lateral Force Resisting System	Shear Walls	SHEAR STRESS CHECK, URM walls	C	C	C	C	NA for LS in low seismicity			
4.6.1.1	Basic	Connections	Anchorage for Normal Forces	WALL ANCHORAGE	C	C	C	C	NC			
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (LS)	C	C	C	C	NA for LS in low seismicity			
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (IO)	C				NA for LS in low seismicity			
4.6.4.1	Basic	Connections	Interconnection of Elements	GIRDER/COLUMN CONNECTION	C	C	C	C	NA for LS in low seismicity			
4.4.2.5.2	Supplemental	Lateral Force Resisting System	Shear Walls	PROPORTIONS, URM	C	C	C	C	NA for LS in low seismicity			
4.4.2.5.3	Supplemental	Lateral Force Resisting System	Shear Walls	MASONRY LAY-UP	C	C	C	C	NA for LS in low seismicity			
4.5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (LS)	C	C	C		NA for LS in low seismicity			
4.5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (IO)	C				NA for LS in low seismicity			
4.5.1.6	Supplemental	Diaphragms	General	OPENINGS AT EXTERIOR MASONRY SHEAR WALLS (LS)	C	C	C		NA for LS in low seismicity			
4.5.1.6	Supplemental	Diaphragms	General	OPENINGS AT EXTERIOR MASONRY SHEAR WALLS (IO)	C				NA for LS in low seismicity			
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C				NA for LS in low seismicity			
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C				NA for LS in low seismicity			
4.6.4.5	Supplemental	Connections	Interconnection of Elements	BEAM, GIRDER AND TRUSS SUPPORTS	C	C	C	C	NA for LS in low seismicity			

Note: C=Compliance required for the safety sub-rating shown

Building: AL0039

JOHN A CAMPBELL USCT

Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C				NA for LS in low seismicity
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C				NA for LS in low seismicity
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C				NA for LS in low seismicity
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C				NA for LS in low seismicity
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C	C				NA for LS in low seismicity
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C	C				NA for LS in low seismicity
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C							NA for LS in low seismicity
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C							NA for LS in low seismicity

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C		NA for LS in low seismicity			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in low seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in low seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C				NA for LS in low seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C		NA for LS in low seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			NA for LS in low seismicity			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C			NA for LS in low seismicity			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C			NA for LS in low seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES	C				NA for LS in low seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C				NA for LS in low seismicity			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in low seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C			NC			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C				NA for LS in low seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in low seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C		U			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C		NA for LS in low seismicity			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C		NA for LS in low seismicity			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C		NA for LS in low seismicity			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C		NA for LS in low seismicity			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C		NA for LS in low seismicity			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C		NA for LS in low seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			NA for LS in low seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C		NA for LS in low seismicity			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C		NA for LS in low seismicity			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C		NA for LS in low seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C			NA for LS in low seismicity			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in low seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in low seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in low seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in low seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C				NA for LS in low seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C		NC			
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C		NA			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C		NA for LS in low seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C		NA for LS in low seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C				NA for LS in low seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C		NA for LS in low seismicity			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C		NA for LS in low seismicity			
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C		NA for LS in low seismicity			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA for LS in low seismicity			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C		NA for LS in low seismicity			
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C			NA for LS in low seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C			NA for LS in low seismicity			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C				NA for LS in low seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		NC			

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		NC			
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		NA for LS in low seismicity			
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C			NA for LS in low seismicity			
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C				NA for LS in low seismicity			
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C				NA for LS in low seismicity			
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C				NA for LS in low seismicity			
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	NA for LS in low seismicity			
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C	NA for LS in low seismicity			
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C				NA for LS in low seismicity			
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C				NA for LS in low seismicity			
4 8.13.5	Supplemental	Piping	C-CLAMPS	C				NA for LS in low seismicity			
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		NA for LS in low seismicity			
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C				NA for LS in low seismicity			
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C				NA for LS in low seismicity			
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	NA for LS in low seismicity			
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C		NA for LS in low seismicity			
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C		NA for LS in low seismicity			
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C				NA for LS in low seismicity			
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C				NA for LS in low seismicity			
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C				NA for LS in low seismicity			
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C				NA for LS in low seismicity			
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C				NA for LS in low seismicity			
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C				NA for LS in low seismicity			
4 8.16.7	Supplemental	Elevators	BRACKETS	C				NA for LS in low seismicity			
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C				NA for LS in low seismicity			
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C				NA for LS in low seismicity			

Note: C=Compliance required for the nonstructural safety sub-rating shown.

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C						NA for LS in low seismicity
4 8.1.2	Supplemental	Partitions	DRIFT	C	C						NA for LS in low seismicity
4 8.1.4	Supplemental	Partitions	TOPS	C	C						NA for LS in low seismicity
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C							NA for LS in low seismicity
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C						NA for LS in low seismicity
4 8.2.1	Basic	Ceilings	SUPPORT	C	C						NA for LS in low seismicity
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C							NA for LS in low seismicity
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C							NA for LS in low seismicity
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C							NA for LS in low seismicity
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C							NA for LS in low seismicity
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C					NC
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C					NA for LS in low seismicity
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C					NA for LS in low seismicity
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C							NA for LS in low seismicity
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C						U
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C						NA for LS in low seismicity
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C						NA for LS in low seismicity
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C						NA for LS in low seismicity
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C						NA for LS in low seismicity
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C						NA for LS in low seismicity
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C						NA for LS in low seismicity
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C						NA for LS in low seismicity
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C						NA for LS in low seismicity
4 8.5.2	Basic	Masonry Veneer	TIES	C	C						NA for LS in low seismicity
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C						NA for LS in low seismicity
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C						NA for LS in low seismicity
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C						NA for LS in low seismicity
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C						NA for LS in low seismicity
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C						NA for LS in low seismicity
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C						NA for LS in low seismicity
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C						NC
4 8.8.2	Basic	Appendages	CANOPIES	C	C						NA
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C						NA for LS in low seismicity
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C						NA for LS in low seismicity
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C						NA for LS in low seismicity
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C						NA for LS in low seismicity
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C						NA for LS in low seismicity
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C					NA for LS in low seismicity
4 8.10.1	Basic	Stairs	URM WALLS	C	C						NA for LS in low seismicity
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C					NA for LS in low seismicity
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C					NA for LS in low seismicity
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C							NA for LS in low seismicity
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C							NA for LS in low seismicity
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C							NA for LS in low seismicity
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C					NC

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		NC			
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		NA for LS in low seismicity			
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C		NA for LS in low seismicity			
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C		NA for LS in low seismicity			
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C		NA for LS in low seismicity			
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C				NA for LS in low seismicity			
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C	NA for LS in low seismicity			
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	NA for LS in low seismicity			
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C	NA for LS in low seismicity			
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C	NA for LS in low seismicity			
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C		NA for LS in low seismicity			
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C			NA for LS in low seismicity			
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		NA for LS in low seismicity			
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C		NA for LS in low seismicity			
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C		NA for LS in low seismicity			
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C	NA for LS in low seismicity			
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	NA for LS in low seismicity			
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	NA for LS in low seismicity			
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C		NA for LS in low seismicity			
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C		NA for LS in low seismicity			
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C		NA for LS in low seismicity			
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C		NA for LS in low seismicity			
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C		NA for LS in low seismicity			
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C		NA for LS in low seismicity			
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C		NA for LS in low seismicity			
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C		NA for LS in low seismicity			
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C		NA for LS in low seismicity			

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^aThese items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

Building: GA0118 FB-PO-CT - EAST BUILDING

C1 (Concrete Moment Frames)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C	C			
4.3.1.2	Basic	Building System	General	ADJACENT BUILDINGS	C	C	C		NC			
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C		NA			
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C	C			
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C	C			
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C	C			
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C	NC			
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C	C			
4.3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C	NC			
4.3.3.5	Basic	Building System	Condition of Materials	POST-TENSIONING ANCHORS	C	C	C		NA			
4.4.1.1.1	Basic	Lateral Force Resisting System	Moment Frames	REDUNDANCY, moment frames (LS)	C	C	C		C			
4.4.1.1.1	Basic	Lateral Force Resisting System	Moment Frames	REDUNDANCY, moment frames (IO)	C				U			
4.4.1.2.1	Basic	Lateral Force Resisting System	Moment Frames	INTERFERING WALLS	C	C	C	C	NC			
4.4.1.4.1	Basic	Lateral Force Resisting System	Moment Frames	SHEAR STRESS CHECK, concrete columns	C	C	C	C	NC			
4.4.1.4.2	Basic	Lateral Force Resisting System	Moment Frames	AXIAL STRESS CHECK, concrete columns	C	C	C	C	C			
4.6.3.2	Basic	Connections	Vertical Components	CONCRETE COLUMNS (LS)	C	C	C	C	C			
4.6.3.2	Basic	Connections	Vertical Components	CONCRETE COLUMNS (IO)	C				U			
4.4.1.4.3	Supplemental	Lateral Force Resisting System	Moment Frames	FLAT SLAB FRAMES	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.4	Supplemental	Lateral Force Resisting System	Moment Frames	PRESTRESSED FRAME ELEMENTS	C	C	C		NA for LS in moderate seismicity			
4.4.1.4.5	Supplemental	Lateral Force Resisting System	Moment Frames	CAPTIVE COLUMNS (LS)	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.5	Supplemental	Lateral Force Resisting System	Moment Frames	CAPTIVE COLUMNS (IO)	C				NA for LS in moderate seismicity			
4.4.1.4.6	Supplemental	Lateral Force Resisting System	Moment Frames	NO SHEAR FAILURES	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.7	Supplemental	Lateral Force Resisting System	Moment Frames	STRONG COLUMN/WEAK BEAM, concrete	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.8	Supplemental	Lateral Force Resisting System	Moment Frames	BEAM BARS	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.9	Supplemental	Lateral Force Resisting System	Moment Frames	COLUMN-BAR SPLICES (LS)	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.9	Supplemental	Lateral Force Resisting System	Moment Frames	COLUMN-BAR SPLICES (IO)	C				NA for LS in moderate seismicity			
4.4.1.4.10	Supplemental	Lateral Force Resisting System	Moment Frames	BEAM BAR SPLICES	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.11	Supplemental	Lateral Force Resisting System	Moment Frames	COLUMN-TIE SPACING	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.12	Supplemental	Lateral Force Resisting System	Moment Frames	STIRRUP SPACING	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.13	Supplemental	Lateral Force Resisting System	Moment Frames	JOINT REINFORCING	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.4.14	Supplemental	Lateral Force Resisting System	Moment Frames	JOINT ECCENTRICITY	C	C	C		NA for LS in moderate seismicity			
4.4.1.4.15	Supplemental	Lateral Force Resisting System	Moment Frames	STIRRUP AND TIE HOOKS	C	C	C		NA for LS in moderate seismicity			
4.4.1.6.2	Supplemental	Lateral Force Resisting System	Moment Frames	DEFLECTION COMPATIBILITY (LS)	C	C	C	C	NA for LS in moderate seismicity			
4.4.1.6.2	Supplemental	Lateral Force Resisting System	Moment Frames	DEFLECTION COMPATIBILITY (IO)	C				NA for LS in moderate seismicity			
4.4.1.6.3	Supplemental	Lateral Force Resisting System	Moment Frames	FLAT SLABS	C	C	C	C	NA for LS in moderate seismicity			
4.5.1.1	Supplemental	Diaphragms	General	DIAPHRAGM CONTINUITY	C	C	C	C	NA for LS in moderate seismicity			
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C				NA for LS in moderate seismicity			
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C				NA for LS in moderate seismicity			
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C		NA for LS in moderate seismicity			
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C				NA for LS in moderate seismicity			

Note: C=Compliance required for the safety sub-rating shown

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Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C		C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C		NA for LS in moderate seismicity			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C		NA for LS in moderate seismicity			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA for LS in moderate seismicity			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA for LS in moderate seismicity			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C		NC			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in moderate seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in moderate seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C				NA for LS in moderate seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C		NA for LS in moderate seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			C			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C			NA for LS in moderate seismicity			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C			NA for LS in moderate seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES	C				NA for LS in moderate seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C				NA for LS in moderate seismicity			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in moderate seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C			C			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C				NA for LS in moderate seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in moderate seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C		C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C		C			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C		NA			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C		C			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C		C			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C		C			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C		NA for LS in moderate seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			NA for LS in moderate seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C		C			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C		C			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C		C			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C			NA for LS in moderate seismicity			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in moderate seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in moderate seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in moderate seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C				NA for LS in moderate seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C		NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C		NA			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C		NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C		NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C				NA for LS in moderate seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C		NA			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C		NA for LS in moderate seismicity			
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C		NC			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C		NC			
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C			NA for LS in moderate seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C			NA for LS in moderate seismicity			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C				NA for LS in moderate seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		C			

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		NA			
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		NC			
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C			NA for LS in moderate seismicity			
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C				NA for LS in moderate seismicity			
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C				NA for LS in moderate seismicity			
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C				NA for LS in moderate seismicity			
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	NC			
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C	NC			
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C				NA for LS in moderate seismicity			
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C				NA for LS in moderate seismicity			
4 8.13.5	Supplemental	Piping	C-CLAMPS	C				NA for LS in moderate seismicity			
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C	C	NA for LS in moderate seismicity			
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C				NA for LS in moderate seismicity			
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C				NA for LS in moderate seismicity			
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	NA for LS in moderate seismicity			
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C		NA			
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	NA for LS in moderate seismicity			
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C				NA for LS in moderate seismicity			
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C				NA for LS in moderate seismicity			
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C				NA for LS in moderate seismicity			
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C				NA for LS in moderate seismicity			
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C				NA for LS in moderate seismicity			
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C				NA for LS in moderate seismicity			
4 8.16.7	Supplemental	Elevators	BRACKETS	C				NA for LS in moderate seismicity			
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C				NA for LS in moderate seismicity			
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C				NA for LS in moderate seismicity			

Note: C=Compliance required for the nonstructural safety sub-rating shown.

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C			NC			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in moderate seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C	C			NA for LS in moderate seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in moderate seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C			NA for LS in moderate seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			C			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C				NA for LS in moderate seismicity			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C				NA for LS in moderate seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C				NA for LS in moderate seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C				NA for LS in moderate seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C		C			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in moderate seismicity			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C		NA for LS in moderate seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in moderate seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C			C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C			C			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C			NA			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C			C			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C			C			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C			C			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C			NA for LS in moderate seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			NA for LS in moderate seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C			C			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C			C			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C			C			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in moderate seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in moderate seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C			NA for LS in moderate seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in moderate seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C			NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C			NA			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C			NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C			NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C			NA for LS in moderate seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C			NA			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA			
4 8.10.1	Basic	Stairs	URM WALLS	C	C			NC			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C		NA for LS in moderate seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C		NA for LS in moderate seismicity			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C				NC			
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C				NA for LS in moderate seismicity			
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C				NA for LS in moderate seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		C			

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C				NA	
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C				NC	
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C				NA for LS in moderate seismicity	
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C				NA for LS in moderate seismicity	
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C				NA for LS in moderate seismicity	
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C						NA for LS in moderate seismicity	
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C			NC	
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	C		NC	
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C	C		NA for LS in moderate seismicity	
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C	C		NA for LS in moderate seismicity	
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C				NA for LS in moderate seismicity	
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C					NA for LS in moderate seismicity	
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C				NA for LS in moderate seismicity	
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C				NA for LS in moderate seismicity	
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C				NA for LS in moderate seismicity	
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C	C		NA	
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	C		NA for LS in moderate seismicity	
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	C		NA for LS in moderate seismicity	
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C				NA for LS in moderate seismicity	
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C				NA for LS in moderate seismicity	
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C				NA for LS in moderate seismicity	
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C				NA for LS in moderate seismicity	
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C				NA for LS in moderate seismicity	
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C				NA for LS in moderate seismicity	
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C				NA for LS in moderate seismicity	
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C				NA for LS in moderate seismicity	
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C				NA for LS in moderate seismicity	

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^aThese items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

Building: SC0018 J. BRATTON DAVIS US BKRPCY CH

C2 (Concrete Shear Walls-Stiff Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C				C
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C				NA
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C	C			C
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C	C			C
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C	C			C
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C	C			NC
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C	C			C
4.3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C	C			NC
4.3.3.5	Basic	Building System	Condition of Materials	POST-TENSIONING ANCHORS	C	C	C	C				NA
4.4.1.6.1	Basic	Lateral Force Resisting System	Moment Frames	COMPLETE FRAMES	C	C	C	C				C
4.4.2.1.1	Basic	Lateral Force Resisting System	Shear Walls	REDUNDANCY, shear walls	C	C	C	C				NC
4.4.2.2.1	Basic	Lateral Force Resisting System	Shear Walls	SHEAR STRESS CHECK, concrete walls	C	C	C	C	C			NC
4.4.2.2.2	Basic	Lateral Force Resisting System	Shear Walls	REINFORCING STEEL, non-tilt-up concrete walls	C	C	C	C	C			C
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (LS)	C	C	C	C	C			C
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (IO)	C							NA for LS in moderate seismicity
4.6.3.5	Basic	Connections	Vertical Components	FOUNDATION DOWELS (LS)	C	C	C	C	C			C
4.6.3.5	Basic	Connections	Vertical Components	FOUNDATION DOWELS (IO)	C							NA for LS in moderate seismicity
4.4.1.6.2	Supplemental	Lateral Force Resisting System	Moment Frames	DEFLECTION COMPATIBILITY (LS)	C	C	C	C				NA for LS in moderate seismicity
4.4.1.6.2	Supplemental	Lateral Force Resisting System	Moment Frames	DEFLECTION COMPATIBILITY (IO)	C							NA for LS in moderate seismicity
4.4.1.6.3	Supplemental	Lateral Force Resisting System	Moment Frames	FLAT SLABS	C	C	C	C	C			NA for LS in moderate seismicity
4.4.2.2.3	Supplemental	Lateral Force Resisting System	Shear Walls	COUPLING BEAMS (LS)	C	C	C	C				NA for LS in moderate seismicity
4.4.2.2.3	Supplemental	Lateral Force Resisting System	Shear Walls	COUPLING BEAMS (IO)	C							NA for LS in moderate seismicity
4.4.2.2.4	Supplemental	Lateral Force Resisting System	Shear Walls	OVERTURNING, concrete shear walls	C							NA for LS in moderate seismicity
4.4.2.2.5	Supplemental	Lateral Force Resisting System	Shear Walls	CONFINEMENT REINFORCING	C							NA for LS in moderate seismicity
4.4.2.2.6	Supplemental	Lateral Force Resisting System	Shear Walls	REINFORCING AT OPENINGS, concrete walls	C							NA for LS in moderate seismicity
4.4.2.2.7	Supplemental	Lateral Force Resisting System	Shear Walls	WALL THICKNESS, cast-in-place concrete	C							NA for LS in moderate seismicity
4.5.1.1	Supplemental	Diaphragms	General	DIAPHRAGM CONTINUITY	C	C	C	C	C			NA for LS in moderate seismicity
4.5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (LS)	C	C	C	C				NA for LS in moderate seismicity
4.5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (IO)	C							NA for LS in moderate seismicity
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							NA for LS in moderate seismicity
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							NA for LS in moderate seismicity
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C	C				NA for LS in moderate seismicity
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C							NA for LS in moderate seismicity

Note: C=Compliance required for the safety sub-rating shown

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Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C	C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C	C	NA for LS in moderate seismicity			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C	C	NA			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C		NC			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in moderate seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in moderate seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C				NA for LS in moderate seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C		NA for LS in moderate seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			C			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C			NA for LS in moderate seismicity			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C			NA for LS in moderate seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES	C				NA for LS in moderate seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C				NA for LS in moderate seismicity			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in moderate seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C			C			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C				NA for LS in moderate seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in moderate seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C		C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C		NA			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C		NA			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C		NA			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C		NA			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C		NA			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C		NA for LS in moderate seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			NA for LS in moderate seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C		NA			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C		NA			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C		NA			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C			NA for LS in moderate seismicity			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in moderate seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in moderate seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in moderate seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C				NA for LS in moderate seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C		NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C		NA			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C		NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C		NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C				NA for LS in moderate seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C		NA			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C		NA for LS in moderate seismicity			
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C		NC			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C		NC			
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C			NA for LS in moderate seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C			NA for LS in moderate seismicity			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C				NA for LS in moderate seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		NC			

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		NC			
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		NA			
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C			NA for LS in moderate seismicity			
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C				NA for LS in moderate seismicity			
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C				NA for LS in moderate seismicity			
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C				NA for LS in moderate seismicity			
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	C			
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C		C			
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C				NA for LS in moderate seismicity			
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C				NA for LS in moderate seismicity			
4 8.13.5	Supplemental	Piping	C-CLAMPS	C				NA for LS in moderate seismicity			
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		NA for LS in moderate seismicity			
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C				NA for LS in moderate seismicity			
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C				NA for LS in moderate seismicity			
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	NA for LS in moderate seismicity			
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C		NA			
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C		NA for LS in moderate seismicity			
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C				NA for LS in moderate seismicity			
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C				NA for LS in moderate seismicity			
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C				NA for LS in moderate seismicity			
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C				NA for LS in moderate seismicity			
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C				NA for LS in moderate seismicity			
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C				NA for LS in moderate seismicity			
4 8.16.7	Supplemental	Elevators	BRACKETS	C				NA for LS in moderate seismicity			
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C				NA for LS in moderate seismicity			
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C				NA for LS in moderate seismicity			

Note: C=Compliance required for the nonstructural safety sub-rating shown.

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C			NC			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in moderate seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C	C			NA for LS in moderate seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in moderate seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C			NA for LS in moderate seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			C			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C				NA for LS in moderate seismicity			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C				NA for LS in moderate seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C				NA for LS in moderate seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C				NA for LS in moderate seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C		C			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in moderate seismicity			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C		NA for LS in moderate seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in moderate seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C			C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C			NA			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C			NA			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C			NA			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C			NA			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C			NA			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C			NA for LS in moderate seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			NA for LS in moderate seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C			NA			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C			NA			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C			NA			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in moderate seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in moderate seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C			NA for LS in moderate seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in moderate seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C			NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C			NA			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C			NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C			NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C			NA for LS in moderate seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C			NA			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA			
4 8.10.1	Basic	Stairs	URM WALLS	C	C			NC			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C		NA for LS in moderate seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C		NA for LS in moderate seismicity			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C				NC			
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C				NA for LS in moderate seismicity			
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C				NA for LS in moderate seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		NC			

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		NC			
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		NA			
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C		NA for LS in moderate seismicity			
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C		NA for LS in moderate seismicity			
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C		NA for LS in moderate seismicity			
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C				NA for LS in moderate seismicity			
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C	C			
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	C			
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C	NA for LS in moderate seismicity			
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C	NA for LS in moderate seismicity			
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C		NA for LS in moderate seismicity			
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C			NA for LS in moderate seismicity			
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		NA for LS in moderate seismicity			
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C		NA for LS in moderate seismicity			
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C		NA for LS in moderate seismicity			
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C	NA			
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	NA for LS in moderate seismicity			
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	NA for LS in moderate seismicity			
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C		NA for LS in moderate seismicity			
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C		NA for LS in moderate seismicity			
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C		NA for LS in moderate seismicity			
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C		NA for LS in moderate seismicity			
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C		NA for LS in moderate seismicity			
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C		NA for LS in moderate seismicity			
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C		NA for LS in moderate seismicity			
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C		NA for LS in moderate seismicity			
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C		NA for LS in moderate seismicity			

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^aThese items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

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S1 (Steel Moment Frames - Stiff Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C				C
4.3.1.2	Basic	Building System	General	ADJACENT BUILDINGS	C	C	C	C				NA for LS in low seismicity
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C				NA for LS in low seismicity
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C				NA for LS in low seismicity
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C				NA for LS in low seismicity
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C				NA for LS in low seismicity
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C				NA for LS in low seismicity
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C				NA for LS in low seismicity
4.3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C				NA for LS in low seismicity
4.4.1.1.1	Basic	Lateral Force Resisting System	Moment Frames	REDUNDANCY, moment frames (LS)	C	C	C	C				NA for LS in low seismicity
4.4.1.1.1	Basic	Lateral Force Resisting System	Moment Frames	REDUNDANCY, moment frames (IO)	C							NA for LS in low seismicity
4.4.1.2.1	Basic	Lateral Force Resisting System	Moment Frames	INTERFERING WALLS	C	C	C	C				NA for LS in low seismicity
4.4.1.3.1	Basic	Lateral Force Resisting System	Moment Frames	DRIFT CHECK (LS)	C	C	C	C				NA for LS in low seismicity
4.4.1.3.1	Basic	Lateral Force Resisting System	Moment Frames	DRIFT CHECK (IO)	C							NA for LS in low seismicity
4.4.1.3.2	Basic	Lateral Force Resisting System	Moment Frames	AXIAL STRESS CHECK, steel columns	C	C	C	C				NA for LS in low seismicity
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (LS)	C	C	C	C				NA for LS in low seismicity
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (IO)	C							NA for LS in low seismicity
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (LS)	C	C	C	C				NA for LS in low seismicity
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (IO)	C							NA for LS in low seismicity
4.4.1.3.3	Supplemental	Lateral Force Resisting System	Moment Frames	MOMENT-RESISTING CONNECTIONS	C	C	C	C				NA for LS in low seismicity
4.4.1.3.4	Supplemental	Lateral Force Resisting System	Moment Frames	PANEL ZONES	C	C	C	C				NA for LS in low seismicity
4.4.1.3.5	Supplemental	Lateral Force Resisting System	Moment Frames	COLUMN SPLICES, steel moment frames (LS)	C	C	C	C				NA for LS in low seismicity
4.4.1.3.5	Supplemental	Lateral Force Resisting System	Moment Frames	COLUMN SPLICES, steel moment frames (IO)	C							NA for LS in low seismicity
4.4.1.3.6	Supplemental	Lateral Force Resisting System	Moment Frames	STRONG COLUMN/WEAK BEAM, stee	C	C	C	C				NA for LS in low seismicity
4.4.1.3.7	Supplemental	Lateral Force Resisting System	Moment Frames	COMPACT MEMBERS	C	C	C	C				NA for LS in low seismicity
4.4.1.3.8	Supplemental	Lateral Force Resisting System	Moment Frames	BEAM PENETRATIONS	C							NA for LS in low seismicity
4.4.1.3.9	Supplemental	Lateral Force Resisting System	Moment Frames	GIRDER FLANGE CONTINUITY PLATES	C							NA for LS in low seismicity
4.4.1.3.10	Supplemental	Lateral Force Resisting System	Moment Frames	OUT-OF-PLANE BRACING, steel moment frames	C							NA for LS in low seismicity
4.4.1.3.11	Supplemental	Lateral Force Resisting System	Moment Frames	BOTTOM FLANGE BRACING	C							NA for LS in low seismicity
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							NA for LS in low seismicity
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							NA for LS in low seismicity
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C	C				NA for LS in low seismicity
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C							NA for LS in low seismicity

Note: C=Compliance required for the safety sub-rating shown

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Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	NA for LS in low seismicity			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C		NA for LS in low seismicity			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	NA for LS in low seismicity			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA for LS in low seismicity			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C		NA for LS in low seismicity			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C		NA for LS in low seismicity			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA for LS in low seismicity			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA for LS in low seismicity			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C		NA for LS in low seismicity			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in low seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in low seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C				NA for LS in low seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C		NA for LS in low seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			NA for LS in low seismicity			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C			NA for LS in low seismicity			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C			NA for LS in low seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES	C				NA for LS in low seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C				NA for LS in low seismicity			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in low seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C			C			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C				NA for LS in low seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in low seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C		C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C		NA for LS in low seismicity			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C		NA for LS in low seismicity			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C		NA for LS in low seismicity			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C		NA for LS in low seismicity			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C		NA for LS in low seismicity			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C		NA for LS in low seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			C			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C		NA for LS in low seismicity			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C		NA for LS in low seismicity			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C		NA for LS in low seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C			NA for LS in low seismicity			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in low seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in low seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in low seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in low seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C				NA for LS in low seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C		NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C		C			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C		NA for LS in low seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C		NA for LS in low seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C				NA for LS in low seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C		NA for LS in low seismicity			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C		NA for LS in low seismicity			
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C		NC			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA for LS in low seismicity			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C		NA for LS in low seismicity			
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C			NA for LS in low seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C			NA for LS in low seismicity			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C				NA for LS in low seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		C			

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					NA for LS in low seismicity
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C					NA for LS in low seismicity
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C						NA for LS in low seismicity
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C							NA for LS in low seismicity
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C							NA for LS in low seismicity
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C							NA for LS in low seismicity
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C				NA for LS in low seismicity
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C					NA for LS in low seismicity
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C							NA for LS in low seismicity
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C							NA for LS in low seismicity
4 8.13.5	Supplemental	Piping	C-CLAMPS	C							NA for LS in low seismicity
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C					NA for LS in low seismicity
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C							NA for LS in low seismicity
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C							NA for LS in low seismicity
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C				NA for LS in low seismicity
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C					NA for LS in low seismicity
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C					NA for LS in low seismicity
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C							NA for LS in low seismicity
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C							NA for LS in low seismicity
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C							NA for LS in low seismicity
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C							NA for LS in low seismicity
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C							NA for LS in low seismicity
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C							NA for LS in low seismicity
4 8.16.7	Supplemental	Elevators	BRACKETS	C							NA for LS in low seismicity
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C							NA for LS in low seismicity
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C							NA for LS in low seismicity

Note: C=Compliance required for the nonstructural safety sub-rating shown.

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C			NA for LS in low seismicity			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in low seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C	C			NA for LS in low seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in low seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C			NA for LS in low seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			NA for LS in low seismicity			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C				NA for LS in low seismicity			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C				NA for LS in low seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C				NA for LS in low seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C				NA for LS in low seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C		C			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in low seismicity			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C		NA for LS in low seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in low seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C			C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C			NA for LS in low seismicity			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C			NA for LS in low seismicity			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C			NA for LS in low seismicity			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C			NA for LS in low seismicity			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C			NA for LS in low seismicity			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C			NA for LS in low seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			C			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C			NA for LS in low seismicity			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C			NA for LS in low seismicity			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C			NA for LS in low seismicity			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in low seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in low seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C			NA for LS in low seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in low seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in low seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C			NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C			C			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C			NA for LS in low seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C			NA for LS in low seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C			NA for LS in low seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C			NA for LS in low seismicity			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C			NA for LS in low seismicity			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA for LS in low seismicity			
4 8.10.1	Basic	Stairs	URM WALLS	C	C			NC			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C		NA for LS in low seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C		NA for LS in low seismicity			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C				NA for LS in low seismicity			
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C				NA for LS in low seismicity			
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C				NA for LS in low seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		C			

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					NA for LS in low seismicity
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C					NA for LS in low seismicity
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C					NA for LS in low seismicity
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C					NA for LS in low seismicity
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C					NA for LS in low seismicity
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C							NA for LS in low seismicity
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C				NA for LS in low seismicity
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	C			NA for LS in low seismicity
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C	C			NA for LS in low seismicity
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C	C			NA for LS in low seismicity
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C	C				NA for LS in low seismicity
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C						NA for LS in low seismicity
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C	C				NA for LS in low seismicity
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C	C				NA for LS in low seismicity
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C	C				NA for LS in low seismicity
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C	C			NA for LS in low seismicity
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	C			NA for LS in low seismicity
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	C			NA for LS in low seismicity
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C	C				NA for LS in low seismicity
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C	C				NA for LS in low seismicity
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C	C				NA for LS in low seismicity
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C	C				NA for LS in low seismicity
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C	C				NA for LS in low seismicity
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C	C				NA for LS in low seismicity
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C	C				NA for LS in low seismicity
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C	C				NA for LS in low seismicity
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C	C				NA for LS in low seismicity

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^a-These items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

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RM1 (Reinforced Masonry Bearing Walls-Flexible Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C	C			C
4.3.1.2	Basic	Building System	General	ADJACENT BUILDINGS	C	C	C	C				C
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C				NA
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C	C			NA
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C	C			NA
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C	C			C
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C	C			NA
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C	C			NA
4.4.2.1.1	Basic	Lateral Force Resisting System	Shear Walls	REDUNDANCY, shear walls	C	C	C	C				C
4.4.2.4.1	Basic	Lateral Force Resisting System	Shear Walls	SHEAR STRESS CHECK, reinforced masonry walls	C	C	C	C	C			C
4.4.2.4.2	Basic	Lateral Force Resisting System	Shear Walls	REINFORCING STEEL, reinforced masonry	C	C	C	C				C
4.6.1.1	Basic	Connections	Anchorage for Normal Forces	WALL ANCHORAGE	C	C	C	C	C			C
4.6.1.2	Basic	Connections	Anchorage for Normal Forces	WOOD LEDGERS	C	C	C	C	C			NA
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (LS)	C	C	C	C	C			C
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (IO)	C							NA for LS
4.6.3.5	Basic	Connections	Vertical Components	FOUNDATION DOWELS (LS)	C	C	C	C	C			C
4.6.3.5	Basic	Connections	Vertical Components	FOUNDATION DOWELS (IO)	C							NA for LS
4.6.4.1	Basic	Connections	Interconnection of Elements	GIRDER/COLUMN CONNECTION	C	C	C	C	C			C
4.4.2.4.3	Supplemental	Lateral Force Resisting System	Shear Walls	REINFORCING AT OPENINGS, masonry walls	C							NA for moderate seismicity
4.4.2.4.4	Supplemental	Lateral Force Resisting System	Shear Walls	PROPORTIONS, reinforced masonry	C	C	C	C				NA for moderate seismicity
4.5.1.2	Supplemental	Diaphragms	General	CROSS TIES	C	C	C	C	C			NA for moderate seismicity
4.5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (LS)	C	C	C	C				NA for moderate seismicity
4.5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (IO)	C							NA for moderate seismicity
4.5.1.6	Supplemental	Diaphragms	General	OPENINGS AT EXTERIOR MASONRY SHEAR WALLS (LS)	C	C	C	C				NA for moderate seismicity
4.5.1.6	Supplemental	Diaphragms	General	OPENINGS AT EXTERIOR MASONRY SHEAR WALLS (IO)	C							NA for moderate seismicity
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							NA for moderate seismicity
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							NA for moderate seismicity
4.5.2.1	Supplemental	Diaphragms	Wood Diaphragms	STRAIGHT SHEATHING (LS)	C	C	C	C	C			NA for moderate seismicity
4.5.2.1	Supplemental	Diaphragms	Wood Diaphragms	STRAIGHT SHEATHING (IO)	C							NA for moderate seismicity
4.5.2.2	Supplemental	Diaphragms	Wood Diaphragms	SPANS (LS)	C	C	C	C	C			NA for moderate seismicity
4.5.2.2	Supplemental	Diaphragms	Wood Diaphragms	SPANS (IO)	C							NA for moderate seismicity
4.5.2.3	Supplemental	Diaphragms	Wood Diaphragms	UNBLOCKED DIAPHRAGMS (LS)	C	C	C	C	C			NA for moderate seismicity
4.5.2.3	Supplemental	Diaphragms	Wood Diaphragms	UNBLOCKED DIAPHRAGMS (IO)	C							NA for moderate seismicity
4.5.3.1	Supplemental	Diaphragms	Metal Deck Diaphragms	NON-CONCRETE FILLED DIAPHRAGMS	C							NA for moderate seismicity
4.5.7.1	Supplemental	Diaphragms	Other Diaphragms	OTHER DIAPHRAGMS	C	C	C	C	C			NA for moderate seismicity
4.6.1.4	Supplemental	Connections	Anchorage for Normal Forces	STIFFNESS OF WALL ANCHORS	C	C	C	C				NA for moderate seismicity

Note: C=Compliance required for the safety sub-rating shown

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Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C	C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C		NA for LS in moderate seismicity			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C		NA for LS in moderate seismicity			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA for LS in moderate seismicity			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C				NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA for LS in moderate seismicity	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						NA for LS in moderate seismicity	
4 8.1.4	Supplemental	Partitions	TOPS	C						NA for LS in moderate seismicity	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C				NA for LS in moderate seismicity	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					NC	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C					NA for LS in moderate seismicity	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C					NA for LS in moderate seismicity	
4 8.2.5	Supplemental	Ceilings	EDGES	C						NA for LS in moderate seismicity	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C						NA for LS in moderate seismicity	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				NA for LS in moderate seismicity	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C					NC	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C						NA for LS in moderate seismicity	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						NA for LS in moderate seismicity	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C				NA	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C				NA	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C				NA	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C				NA	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C				NA	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C				NA	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C				NA for LS in moderate seismicity	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					NA for LS in moderate seismicity	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C				NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C				NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C				NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA for LS in moderate seismicity	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA for LS in moderate seismicity	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NA for LS in moderate seismicity	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA for LS in moderate seismicity	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C						NA for LS in moderate seismicity	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C				NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C				C	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C				NA for LS in moderate seismicity	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C				NA for LS in moderate seismicity	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C						NA for LS in moderate seismicity	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C				NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C				NA for LS in moderate seismicity	
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C				NA	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				NA	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C				NC	
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C					NA for LS in moderate seismicity	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C					NA for LS in moderate seismicity	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C						NA for LS in moderate seismicity	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				NA	

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		NA			
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		NC			
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C			NA for LS in moderate seismicity			
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C				NA for LS in moderate seismicity			
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C				NA for LS in moderate seismicity			
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C				NA for LS in moderate seismicity			
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	NA			
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C		NA			
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C				NA for LS in moderate seismicity			
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C				NA for LS in moderate seismicity			
4 8.13.5	Supplemental	Piping	C-CLAMPS	C				NA for LS in moderate seismicity			
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		NA for LS in moderate seismicity			
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C				NA for LS in moderate seismicity			
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C				NA for LS in moderate seismicity			
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	NA for LS in moderate seismicity			
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C		NA			
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C		NA for LS in moderate seismicity			
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C				NA for LS in moderate seismicity			
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C				NA for LS in moderate seismicity			
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C				NA for LS in moderate seismicity			
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C				NA for LS in moderate seismicity			
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C				NA for LS in moderate seismicity			
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C				NA for LS in moderate seismicity			
4 8.16.7	Supplemental	Elevators	BRACKETS	C				NA for LS in moderate seismicity			
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C				NA for LS in moderate seismicity			
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C				NA for LS in moderate seismicity			

Note: C=Compliance required for the nonstructural safety sub-rating shown.

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C			NA			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			NA for LS in moderate seismicity			
4 8.1.4	Supplemental	Partitions	TOPS	C	C			NA for LS in moderate seismicity			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				NA for LS in moderate seismicity			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C			NA for LS in moderate seismicity			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			NC			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C				NA for LS in moderate seismicity			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C				NA for LS in moderate seismicity			
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C				NA for LS in moderate seismicity			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C				NA for LS in moderate seismicity			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C		NC			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		NA for LS in moderate seismicity			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C		NA for LS in moderate seismicity			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				NA for LS in moderate seismicity			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C			NA			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C			NA			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C			NA			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C			NA			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C			NA			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C			NA			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C			NA for LS in moderate seismicity			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			NA for LS in moderate seismicity			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C			NA			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C			NA			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C			NA			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA for LS in moderate seismicity			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA for LS in moderate seismicity			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C			NA for LS in moderate seismicity			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA for LS in moderate seismicity			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C			NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C			C			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C			NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C			NA for LS in moderate seismicity			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C			NA for LS in moderate seismicity			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C			NA			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C			NA for LS in moderate seismicity			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		NA			
4 8.10.1	Basic	Stairs	URM WALLS	C	C			NA			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C		NA for LS in moderate seismicity			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C		NA for LS in moderate seismicity			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C				NC			
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C				NA for LS in moderate seismicity			
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C				NA for LS in moderate seismicity			
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C		NA			

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C			NA		
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C			NC		
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C			NA for LS in moderate seismicity		
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C			NA for LS in moderate seismicity		
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C			NA for LS in moderate seismicity		
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C					NA for LS in moderate seismicity		
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C	C	NA		
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	C	NA		
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C	C	NA for LS in moderate seismicity		
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C	C	NA for LS in moderate seismicity		
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C			NA		
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C				NA for LS in moderate seismicity		
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C			NA for LS in moderate seismicity		
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C			NA for LS in moderate seismicity		
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C			NA for LS in moderate seismicity		
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C	C	NA		
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	C	NA for LS in moderate seismicity		
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	C	NA for LS in moderate seismicity		
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C			NA for LS in moderate seismicity		
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C			NA for LS in moderate seismicity		
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C			NA for LS in moderate seismicity		
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C			NA for LS in moderate seismicity		
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C			NA for LS in moderate seismicity		
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C			NA for LS in moderate seismicity		
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C			NA for LS in moderate seismicity		
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C			NA for LS in moderate seismicity		
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C			NA for LS in moderate seismicity		

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^a-These items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

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S2 (Steel Braced Frames - Stiff Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C				C
4.3.1.2	Basic	Building System	General	ADJACENT BUILDINGS	C	C	C					U
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C					NA
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C				C
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C				C
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C				C
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C				C
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C				C
4.3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C				C
4.4.1.3.2	Basic	Lateral Force Resisting System	Moment Frames	AXIAL STRESS CHECK, steel columns	C	C	C	C				C
4.4.3.1.1	Basic	Lateral Force Resisting System	Braced Frames	REDUNDANCY, braced frames (LS)	C	C	C					C
4.4.3.1.1	Basic	Lateral Force Resisting System	Braced Frames	REDUNDANCY, braced frames (IO)	C							NA for LS
4.4.3.1.2	Basic	Lateral Force Resisting System	Braced Frames	AXIAL STRESS CHECK, steel diagonals	C	C	C	C				NC
4.4.3.1.3	Basic	Lateral Force Resisting System	Braced Frames	COLUMN SPLICES, braced frames	C							NA for LS
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (LS)	C	C	C	C				C
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (IO)	C							NA for LS
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (LS)	C	C	C	C				C
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (IO)	C							NA for LS
4.4.1.3.7	Supplemental	Lateral Force Resisting System	Moment Frames	COMPACT MEMBERS	C	C	C					U
4.4.3.1.4	Supplemental	Lateral Force Resisting System	Braced Frames	SLENDERNESS OF DIAGONALS	C	C	C	C				U
4.4.3.1.5	Supplemental	Lateral Force Resisting System	Braced Frames	CONNECTION STRENGTH	C	C	C					U
4.4.3.1.6	Supplemental	Lateral Force Resisting System	Braced Frames	OUT-OF-PLANE BRACING, steel braced frames	C							NA for LS
4.4.3.2.1	Supplemental	Lateral Force Resisting System	Braced Frames	K-BRACING	C	C	C	C				C
4.4.3.2.2	Supplemental	Lateral Force Resisting System	Braced Frames	TENSION-ONLY BRACES	C							C
4.4.3.2.3	Supplemental	Lateral Force Resisting System	Braced Frames	CHEVRON BRACING	C							NA for LS
4.4.3.2.4	Supplemental	Lateral Force Resisting System	Braced Frames	CONCENTRICALLY BRACED FRAME JOINTS	C							NA for LS
4.5.1.5	Supplemental	Diaphragms	General	OPENINGS AT BRACED FRAMES (LS)	C	C	C					C
4.5.1.5	Supplemental	Diaphragms	General	OPENINGS AT BRACED FRAMES (IO)	C							NA for LS
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							NA for LS
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							NA for LS
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C					C
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C							NA for LS

Note: C=Compliance required for the safety sub-rating shown

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Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C	C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C	C		
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C	C	C			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C	C	C			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA for LS			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA for LS			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

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Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C				NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						U	
4 8.1.4	Supplemental	Partitions	TOPS	C						U	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C				C	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					C	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C					C	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C					C	
4 8.2.5	Supplemental	Ceilings	EDGES	C						U	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C						U	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				C	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C					C	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C						U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						U	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C				C	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C				C	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C				C	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C				C	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C				C	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C				C	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C				U	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					U	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C				NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C				NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C				NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NA	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C						NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C				NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C				U	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C				NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C				U	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C						U	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C				NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C				NA	
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C				U	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				U	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C				NC	
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C					NC	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C					NA	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C						NA	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				NC	

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Nonstructural Safety Sub-rating								
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		U
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		U
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C			U
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C				U
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C				U
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C				U
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	U
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C		NC
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C				NC
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C				U
4 8.13.5	Supplemental	Piping	C-CLAMPS	C				U
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		U
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C				NC
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C				NC
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	U
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C		U
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C		U
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C				C
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C				U
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C				U
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C				U
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C				U
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C				U
4 8.16.7	Supplemental	Elevators	BRACKETS	C				U
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C				U
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C				U

Note: C=Compliance required for the nonstructural safety sub-rating shown.

Building: CA0260 ROBERT F. PECKHAM COURTHOUSE

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C				NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						U	
4 8.1.4	Supplemental	Partitions	TOPS	C						U	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C				C	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					C	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C					C	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C					C	
4 8.2.5	Supplemental	Ceilings	EDGES	C						U	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C						U	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				C	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C					C	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C						U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						U	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C				C	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C				C	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C				C	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C				C	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C				C	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C				C	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C				U	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					U	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C				NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C				NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C				NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NA	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C						NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C				NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C				U	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C				NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C				U	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C						U	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C				NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C				NA	
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C				U	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				U	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C				NC	
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C					NC	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C					NA	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C						NA	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				NC	

Building: CA0260 ROBERT F. PECKHAM COURTHOUSE

Nonstructural Safety Sub-rating								
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C		U
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C		U
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C			U
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C				U
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C				U
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C				U
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	U
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C		NC
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C				NC
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C				U
4 8.13.5	Supplemental	Piping	C-CLAMPS	C				U
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C		U
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C				NC
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C				NC
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	U
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C		U
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C		U
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C				C
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C				U
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C				U
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C				U
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C				U
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C				U
4 8.16.7	Supplemental	Elevators	BRACKETS	C				U
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C				U
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C				U

Note: C=Compliance required for the nonstructural safety sub-rating shown.

Building: CA0269 PASEO INT'L - OTAY MESA - COMMERCIAL INSPECTION BUILDING

S2A (Steel Braced Frames - Flexible Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C				C
4.3.1.2	Basic	Building System	General	ADJACENT BUILDINGS	C	C	C	C				C
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C				NA
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C	C			NA
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C	C			NA
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C	C			C
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C	C			NA
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C	C			NA
4.4.1.3.2	Basic	Lateral Force Resisting System	Moment Frames	AXIAL STRESS CHECK, steel columns	C	C	C	C	C			"C" by judgement
4.4.3.1.1	Basic	Lateral Force Resisting System	Braced Frames	REDUNDANCY, braced frames (LS)	C	C	C	C				NC
4.4.3.1.1	Basic	Lateral Force Resisting System	Braced Frames	REDUNDANCY, braced frames (IO)	C							NC
4.4.3.1.2	Basic	Lateral Force Resisting System	Braced Frames	AXIAL STRESS CHECK, steel diagonals	C	C	C	C	C			C
4.4.3.1.3	Basic	Lateral Force Resisting System	Braced Frames	COLUMN SPLICES, braced frames	C							NA
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (LS)	C	C	C	C	C			C
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (IO)	C							NA for LS
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (LS)	C	C	C	C	C			C
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (IO)	C							NA for LS
4.4.1.3.7	Supplemental	Lateral Force Resisting System	Moment Frames	COMPACT MEMBERS	C	C	C	C				U
4.4.3.1.4	Supplemental	Lateral Force Resisting System	Braced Frames	SLENDERNESS OF DIAGONALS	C	C	C	C	C			U
4.4.3.1.5	Supplemental	Lateral Force Resisting System	Braced Frames	CONNECTION STRENGTH	C	C	C	C				NC
4.4.3.1.6	Supplemental	Lateral Force Resisting System	Braced Frames	OUT-OF-PLANE BRACING, steel braced frames	C							NA for LS
4.4.3.2.1	Supplemental	Lateral Force Resisting System	Braced Frames	K-BRACING	C	C	C	C	C			C
4.4.3.2.2	Supplemental	Lateral Force Resisting System	Braced Frames	TENSION-ONLY BRACES	C							NA for LS
4.4.3.2.3	Supplemental	Lateral Force Resisting System	Braced Frames	CHEVRON BRACING	C							NA for LS
4.4.3.2.4	Supplemental	Lateral Force Resisting System	Braced Frames	CONCENTRICALLY BRACED FRAME JOINTS	C							NA for LS
4.5.1.2	Supplemental	Diaphragms	General	CROSS TIES	C	C	C	C				C
4.5.1.5	Supplemental	Diaphragms	General	OPENINGS AT BRACED FRAMES (LS)	C	C	C	C				C
4.5.1.5	Supplemental	Diaphragms	General	OPENINGS AT BRACED FRAMES (IO)	C							NA for LS
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							NA for LS
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							NA for LS
4.5.2.1	Supplemental	Diaphragms	Wood Diaphragms	STRAIGHT SHEATHING (LS)	C	C	C	C				NA
4.5.2.1	Supplemental	Diaphragms	Wood Diaphragms	STRAIGHT SHEATHING (IO)	C							NA
4.5.2.2	Supplemental	Diaphragms	Wood Diaphragms	SPANS (LS)	C	C	C	C				NA
4.5.2.2	Supplemental	Diaphragms	Wood Diaphragms	SPANS (IO)	C							NA
4.5.2.3	Supplemental	Diaphragms	Wood Diaphragms	UNBLOCKED DIAPHRAGMS (LS)	C	C	C	C				NA
4.5.2.3	Supplemental	Diaphragms	Wood Diaphragms	UNBLOCKED DIAPHRAGMS (IO)	C							NA
4.5.3.1	Supplemental	Diaphragms	Metal Deck Diaphragms	NON-CONCRETE FILLED DIAPHRAGMS	C							NA for LS
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C	C				NA
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C							NA

Note: C=Compliance required for the safety sub-rating shown

Building: CA0269

PASEO INT'L - OTAY MESA - COMMERCIAL INSPECTION BUILDING

Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C	C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C	C	C			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C	C	C			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA for LS			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

Building: CA0269 PASEO INT'L - OTAY MESA - COMMERCIAL INSPECTION BUILDING

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C				NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						U	
4 8.1.4	Supplemental	Partitions	TOPS	C						U	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C				NA	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					NC	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C					NC	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C					U	
4 8.2.5	Supplemental	Ceilings	EDGES	C						U	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C						U	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				NC	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C					U	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C						U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						U	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C				NA	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C				NA	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C				NA	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C				NA	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C				NA	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C				NA	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C				NA	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C				NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C				NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C				NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NC but not a LS issue	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C						NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C				NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C				U	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C				NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C				NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C						NA	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C				NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C				NA	
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C				NA	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				NA	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C				NC	
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C					NC	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C					NA	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C						NA	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				NC	

Building: CA0269 PASEO INT'L - OTAY MESA - COMMERCIAL INSPECTION BUILDING

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					U
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C					U
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C						U
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C							U
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C							U
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C							U
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C			NC	
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C					U
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C							U
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C							U
4 8.13.5	Supplemental	Piping	C-CLAMPS	C							U
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C					NA
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C						NC	
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C						NC	
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C				U
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C					U
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C					U
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C							NA
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C							NA
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C							NA
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C							NA
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C							NA
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C							NA
4 8.16.7	Supplemental	Elevators	BRACKETS	C							NA
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C							NA
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C							NA

Note: C=Compliance required for the nonstructural safety sub-rating shown.

Building: CA0269 PASEO INT'L - OTAY MESA - COMMERCIAL INSPECTION BUILDING

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C					NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA	
4 8.1.4	Supplemental	Partitions	TOPS	C	C					U	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						U	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C					NA	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					NC	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C						U	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C						NC	
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C						U	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C						U	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C				U	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				NC	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C				U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						U	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C					NA	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C					NA	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C					NA	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C					NA	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C					NA	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C					NA	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C					NA	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C					NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C					NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NC but not a LS issue	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C					NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C					U	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C					NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C					NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C					NA	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C					NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C					NA	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				NA	
4 8.10.1	Basic	Stairs	URM WALLS	C	C					NA	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C				NA	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C				NA	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C						NC	
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C						NC	
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C						U	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				NC	

Building: CA0269 PASEO INT'L - OTAY MESA - COMMERCIAL INSPECTION BUILDING

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					U
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C					U
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C					U
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C					U
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C					U
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C							U
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C				U
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C			NC	
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C				U
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C				U
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C					U
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C						U
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C					NA
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C				NC	
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C				NC	
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C				U
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C				U
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C				U
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C					NA
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C					NA
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C					NA
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C					NA
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C					NA
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C					NA
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C					NA
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C					NA
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C					NA

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^aThese items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

Building: AK0013 FED BLDG,CRTH, And USPO

S2 (Steel Braced Frames - Stiff Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4.3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C				C
4.3.1.2	Basic	Building System	General	ADJACENT BUILDINGS	C	C	C	C				C
4.3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C				NA
4.3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C				C
4.3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C				C
4.3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C				C
4.3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C				C
4.3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C				C
4.3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C				C
4.4.1.3.2	Basic	Lateral Force Resisting System	Moment Frames	AXIAL STRESS CHECK, steel columns	C	C	C	C				C
4.4.3.1.1	Basic	Lateral Force Resisting System	Braced Frames	REDUNDANCY, braced frames (LS)	C	C	C	C				C
4.4.3.1.1	Basic	Lateral Force Resisting System	Braced Frames	REDUNDANCY, braced frames (IO)	C							NA for LS
4.4.3.1.2	Basic	Lateral Force Resisting System	Braced Frames	AXIAL STRESS CHECK, steel diagonals	C	C	C	C				"C" based on general conclusions about the building
4.4.3.1.3	Basic	Lateral Force Resisting System	Braced Frames	COLUMN SPLICES, braced frames	C							C
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (LS)	C	C	C	C				C
4.6.2.2	Basic	Connections	Shear Transfer	TRANSFER TO STEEL FRAMES (IO)	C							NA for LS
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (LS)	C	C	C	C				C
4.6.3.1	Basic	Connections	Vertical Components	STEEL COLUMNS (IO)	C							NA for LS
4.4.1.3.7	Supplemental	Lateral Force Resisting System	Moment Frames	COMPACT MEMBERS	C	C	C	C				C
4.4.3.1.4	Supplemental	Lateral Force Resisting System	Braced Frames	SLENDERNES OF DIAGONALS	C	C	C	C				"C" based on general conclusions about the building
4.4.3.1.5	Supplemental	Lateral Force Resisting System	Braced Frames	CONNECTION STRENGTH	C	C	C	C				"C" based on general conclusions about the building
4.4.3.1.6	Supplemental	Lateral Force Resisting System	Braced Frames	OUT-OF-PLANE BRACING, steel braced frames	C							NA for LS
4.4.3.2.1	Supplemental	Lateral Force Resisting System	Braced Frames	K-BRACING	C	C	C	C				C
4.4.3.2.2	Supplemental	Lateral Force Resisting System	Braced Frames	TENSION-ONLY BRACES	C							C
4.4.3.2.3	Supplemental	Lateral Force Resisting System	Braced Frames	CHEVRON BRACING	C							NC
4.4.3.2.4	Supplemental	Lateral Force Resisting System	Braced Frames	CONCENTRICALLY BRACED FRAME JOINTS	C							C
4.5.1.5	Supplemental	Diaphragms	General	OPENINGS AT BRACED FRAMES (LS)	C	C	C	C				C
4.5.1.5	Supplemental	Diaphragms	General	OPENINGS AT BRACED FRAMES (IO)	C							NA for LS
4.5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							NA for LS
4.5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							NA for LS
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C	C				NA
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C							NA

Note: C=Compliance required for the safety sub-rating shown

Building: AK0013

FED BLDG,CRTH, And USPO

Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C		C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C		C			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C		C			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				C			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

Building: AK0013 FED BLDG,CRTH, And USPO

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C				NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						U	
4 8.1.4	Supplemental	Partitions	TOPS	C						U	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C				NA	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					U	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C					NC	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C					U	
4 8.2.5	Supplemental	Ceilings	EDGES	C						U	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C						U	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				U	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C					U	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C						U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						U	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C				C	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C				U	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C				U	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C				U	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C				U	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C				U	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C				U	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					U	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C				NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C				NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C				NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NA	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C						NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C				NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C				NA	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C				NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C				NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C						NA	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C				NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C				NA	
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C				U	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				U	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C				NC presumed	
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C					U	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C					U	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C						U	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				U	

Building: AK0013 FED BLDG,CRTH, And USPO

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					U
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C					U
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C						U
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C							U
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C							U
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C							U
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C				U
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C					U
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C							U
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C							U
4 8.13.5	Supplemental	Piping	C-CLAMPS	C							U
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C					U
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C							U
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C							U
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C				U
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C					U
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C				NA	
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C						NC	
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C							U
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C							U
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C							U
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C							U
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C							U
4 8.16.7	Supplemental	Elevators	BRACKETS	C							U
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C							U
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C							U

Note: C=Compliance required for the nonstructural safety sub-rating shown.

Building: AK0013 FED BLDG,CRTH, And USPO

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C					NA	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NA	
4 8.1.4	Supplemental	Partitions	TOPS	C	C					U	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						U	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C					NA	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					U	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C						U	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C						NC	
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C						U	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C						U	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C				U	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C	C			U	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C	C			U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						U	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C					C	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C					U	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C				U	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C					U	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C					U	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C					U	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C					U	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					U	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C					NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C					NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C	C				NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NA	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C					NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C					NA	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C					NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C					NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C	C				NA	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C					NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C					NA	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C	C			U	
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C				U	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C	C			U	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C	C			U	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C						NC presumed	
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C						U	
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C						U	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C	C			U	

Building: AK0013 FED BLDG,CRTH, And USPO

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					U
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C	C				U
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C	C				U
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C	C				U
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C	C				U
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C							U
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C				U
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C	C			U
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C	C			U
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C	C			U
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C	C				U
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C						U
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C	C				U
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C	C				U
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C	C				U
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C	C			U
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C	C			U
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C	C		NA	
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C	C			NC	
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C	C				U
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C	C				U
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C	C				U
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C	C				U
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C	C				U
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C	C				U
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C	C				U
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C	C				U

Note: C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

^aThese items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

Building: LA Federal Courthouse

Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1.2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C	C			
4.7.1.3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C			
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	C			
4.7.3.2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C		C			
4.7.3.3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C		C			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				applies to IO ⁽²⁾			
4.7.3.5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				applies to IO ⁽²⁾			

Notes:

- 1) C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown
- 2) "Applies to IO" indicates that this statement was not verified for IO performance , hence it cannot be answered definitively

Building: LA Federal Courthouse

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C		C			
4 8.1.2	Supplemental	Partitions	DRIFT	C	C			C			
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C				applies to IO ⁽²⁾			
4 8.1.4	Supplemental	Partitions	TOPS	C				applies to IO ⁽²⁾			
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C		C			
4 8.2.1	Basic	Ceilings	SUPPORT	C	C			C			
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C			C			
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C			C			
4 8.2.5	Supplemental	Ceilings	EDGES	C				applies to IO ⁽²⁾			
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C				applies to IO ⁽²⁾			
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C		C			
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C			C			
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C				C			
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C				applies to IO ⁽²⁾			
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C		C			
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C		C			
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C		C			
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C		C			
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C		C			
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C		C			
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C		C			
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C			C			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C		NA			
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C		NA			
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C		NA			
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C			NA			
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C			NA			
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C			NA			
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C			NA			
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C			NA			
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C				NA			
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C		NA			
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C		C			
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C		NA			
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C		C			
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C				applies to IO ⁽²⁾			
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C		NA			
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C		NA			
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C		NA			
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C		C			
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C		C			
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C			C			
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C			NA			
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C				applies to IO ⁽²⁾			

Building: LA Federal Courthouse

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				C	
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C				C	
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C				C	
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C					C	
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C						applies to IO ⁽²⁾	
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C						applies to IO ⁽²⁾	
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C						applies to IO ⁽²⁾	
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C			C	
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C				C	
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C						applies to IO ⁽²⁾	
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C						applies to IO ⁽²⁾	
4 8.13.5	Supplemental	Piping	C-CLAMPS	C						applies to IO ⁽²⁾	
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C				C	
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C						applies to IO ⁽²⁾	
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C						applies to IO ⁽²⁾	
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C			NA	
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C				C	
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C				C	
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C						applies to IO ⁽²⁾	
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C						applies to IO ⁽²⁾	
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C						applies to IO ⁽²⁾	
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C						applies to IO ⁽²⁾	
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C						applies to IO ⁽²⁾	
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C						applies to IO ⁽²⁾	
4 8.16.7	Supplemental	Elevators	BRACKETS	C						applies to IO ⁽²⁾	
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C						applies to IO ⁽²⁾	
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C						applies to IO ⁽²⁾	

Notes:

1) C=Compliance required for the nonstructural safety sub-rating shown.

2) "Applies to IO" indicates that this statement was not verified for IO performance , hence it cannot be answered definitively.

Building: LA Federal Courthouse

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C					C	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					C	
4 8.1.4	Supplemental	Partitions	TOPS	C	C					C	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						applies to IR ⁽²⁾	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C					C	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					C	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C						C	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C						C	
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C						applies to IR ⁽²⁾	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C						applies to IR ⁽²⁾	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C				C	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				C	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C				C	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						applies to IR ⁽²⁾	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C					C	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C					C	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C					C	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C					C	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C					C	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C					C	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C					C	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					C	
4 8.5.1	Basic	Masonry veneer	SHELF ANGLES (LS)	C	C					NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C					NA	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					NA	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NA	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NA	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C					NA	
4 8.8.2	Basic	Appendages	CANOPIES	C	C					C	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C					NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C					C	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C					U	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C					NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C					NA	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				C	
4 8.10.1	Basic	Stairs	URM WALLS	C	C					NA	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C				NA	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C				NA	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C						C	
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C						C	
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C						applies to IR ⁽²⁾	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				C	

Building: LA Federal Courthouse

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C				C	
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C				C	
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C				U	
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C				U	
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C				U	
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C						C	
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C			C	
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C			C	
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C			U	
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C			C	
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C				C	
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C					U	
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C				C	
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C				U	
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C				U	
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C			C	
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C			NA	
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C			C	
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C				U	
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C				U	
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C				U	
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C				U	
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C				U	
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C				U	
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C				U	
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C				U	
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C				U	

Notes:

1) C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

2) "Applies to IR" indicates that this statement has not been evaluated for recovery immediately or within days

^a-These items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.

Building: 50 UN Plaza

C2 (Concrete Shear Walls-Stiff Diaphragms)												
ASCE 31 Tier 2 Section	Checklist	Heading	Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
					5-Star	4-Star	3-Star	2-Star				
4 3.1.1	Basic	Building System	General	LOAD PATH	C	C	C	C				C
4 3.1.3	Basic	Building System	General	MEZZANINES	C	C	C	C				NA
4 3.2.1	Basic	Building System	Configuration	WEAK STORY	C	C	C	C				C
4 3.2.2	Basic	Building System	Configuration	SOFT STORY	C	C	C	C				C
4 3.2.3	Basic	Building System	Configuration	GEOMETRY	C	C	C	C				C
4 3.2.4	Basic	Building System	Configuration	VERTICAL DISCONTINUITIES	C	C	C	C				C
4 3.2.5	Basic	Building System	Configuration	MASS	C	C	C	C				C
4 3.2.6	Basic	Building System	Configuration	TORSION	C	C	C	C				C
4 3.3.5	Basic	Building System	Condition of Materials	POST-TENSIONING ANCHORS	C	C	C	C				NA
4.4.1.6.1	Basic	Lateral Force Resisting System	Moment Frames	COMPLETE FRAMES	C	C	C	C				C
4.4.2.1.1	Basic	Lateral Force Resisting System	Shear Walls	REDUNDANCY, shear walls	C	C	C	C				C
4.4.2.2.1	Basic	Lateral Force Resisting System	Shear Walls	SHEAR STRESS CHECK, concrete walls	C	C	C	C				C
4.4.2.2.2	Basic	Lateral Force Resisting System	Shear Walls	REINFORCING STEEL, non-tilt-up concrete walls	C	C	C	C				C
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (LS)	C	C	C	C				C
4.6.2.1	Basic	Connections	Shear Transfer	TRANSFER TO SHEAR WALLS (IO)	C							applies to IO ⁽²⁾
4.6.3.5	Basic	Connections	Vertical Components	FOUNDATION DOWELS (LS)	C	C	C	C				C
4.6.3.5	Basic	Connections	Vertical Components	FOUNDATION DOWELS (IO)	C							applies to IO ⁽²⁾
4.4.1.6.2	Supplemental	Lateral Force Resisting System	Moment Frames	DEFLECTION COMPATIBILITY (LS)	C	C	C	C				C
4.4.1.6.2	Supplemental	Lateral Force Resisting System	Moment Frames	DEFLECTION COMPATIBILITY (IO)	C							applies to IO ⁽²⁾
4.4.1.6.3	Supplemental	Lateral Force Resisting System	Moment Frames	FLAT SLABS	C	C	C	C				C
4.4.2.2.3	Supplemental	Lateral Force Resisting System	Shear Walls	COUPLING BEAMS (LS)	C	C	C	C				C
4.4.2.2.3	Supplemental	Lateral Force Resisting System	Shear Walls	COUPLING BEAMS (IO)	C							applies to IO ⁽²⁾
4.4.2.2.4	Supplemental	Lateral Force Resisting System	Shear Walls	OVERTURNING, concrete shear walls	C							C
4.4.2.2.5	Supplemental	Lateral Force Resisting System	Shear Walls	CONFINEMENT REINFORCING	C							C
4.4.2.2.6	Supplemental	Lateral Force Resisting System	Shear Walls	REINFORCING AT OPENINGS, concrete walls	C							C
4.4.2.2.7	Supplemental	Lateral Force Resisting System	Shear Walls	WALL THICKNESS, cast-in-place concrete	C							C
4 5.1.1	Supplemental	Diaphragms	General	DIAPHRAGM CONTINUITY	C	C	C	C				C
4 5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (LS)	C	C	C	C				C
4 5.1.4	Supplemental	Diaphragms	General	OPENINGS AT SHEAR WALLS (IO)	C							applies to IO ⁽²⁾
4 5.1.7	Supplemental	Diaphragms	General	PLAN IRREGULARITIES	C							C
4 5.1.8	Supplemental	Diaphragms	General	DIAPHRAGM REINFORCEMENT AT OPENINGS	C							C
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (LS)	C	C	C	C				C
4.6.3.10	Supplemental	Connections	Vertical Components	UPLIFT AT PILE CAPS (IO)	C							applies to IO ⁽²⁾

Notes:

1) C=Compliance required for the safety sub-rating shown

2) "Applies to IO" indicates that this statement was not verified for IO performance , hence it cannot be answered definitively.

Building: 50 UN Plaza

Geologic Site Hazards and Foundations											
ASCE 31 Tier 2 Section	Checklist	Heading	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4.7.1.1	Geologic Site Hazards and Foundations	Geologic Site Hazards	LIQUEFACTION	C	C	C	C	C			
4.7.1 2	Geologic Site Hazards and Foundations	Geologic Site Hazards	SLOPE FAILURE	C	C	C	C	C			
4.7.1 3	Geologic Site Hazards and Foundations	Geologic Site Hazards	SURFACE FAULT RUPTURE	C	C	C	C	C	C		
4.7.3.1	Geologic Site Hazards and Foundations	Capacity of Foundations	POLE FOUNDATIONS	C	C	C	C	NA			
4.7.3 2	Geologic Site Hazards and Foundations	Capacity of Foundations	OVERTURNING, foundations	C	C	C	C	C			
4.7.3 3	Geologic Site Hazards and Foundations	Capacity of Foundations	TIES BETWEEN FOUNDATION ELEMENTS	C	C	C	C	C			
4.7.3.4	Geologic Site Hazards and Foundations	Capacity of Foundations	DEEP FOUNDATIONS	C				NA			
4.7.3 5	Geologic Site Hazards and Foundations	Capacity of Foundations	SLOPING SITES	C				NA			

Note: C=Compliance required for the Geologic Site Hazards and Foundations Safety sub-rating shown

Building: 50 UN Plaza

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C	C					C
4 8.1.2	Supplemental	Partitions	DRIFT	C	C						NC
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C							applies to IO ⁽²⁾
4 8.1.4	Supplemental	Partitions	TOPS	C							applies to IO ⁽²⁾
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C	C	C				NC
4 8.2.1	Basic	Ceilings	SUPPORT	C	C						C
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C	C						C
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C	C						C
4 8.2.5	Supplemental	Ceilings	EDGES	C							applies to IO ⁽²⁾
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT	C							applies to IO ⁽²⁾
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C	C				NC
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C						C
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C							applies to IO ⁽²⁾
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C							applies to IO ⁽²⁾
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C	C	C				NA
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C	C	C				NA
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C	C	C				NA
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C	C	C				NA
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C	C	C				NA
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C	C	C				NA
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C	C	C				NA
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C						NA
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C	C	C				NA
4 8.5.2	Basic	Masonry Veneer	TIES	C	C	C					NC
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C	C	C				NA
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (IO)	C	C						NA
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C						C
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C						NA
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C						NC
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C						NC
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C							applies to IO ⁽²⁾
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C	C	C				C
4 8.8.2	Basic	Appendages	CANOPIES	C	C	C	C				C
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C	C	C				NA
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C	C	C				C
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C							applies to IO ⁽²⁾
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C	C	C				NA
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C	C	C				NA
4 8.10.1	Basic	Stairs	URM WALLS	C	C	C	C				C
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C	C				NA
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C	C	C	C				NC
4 8.11.2	Supplemental	Contents	FILE CABINETS	C	C						NC
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C						NA
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C							applies to IO ⁽²⁾
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C	C				C

Building: 50 UN Plaza

Nonstructural Safety Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C					C
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C					C
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C	C						C
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C							applies to IO ⁽²⁾
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C							applies to IO ⁽²⁾
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C							applies to IO ⁽²⁾
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C				C
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C					C
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING	C							applies to IO ⁽²⁾
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C							applies to IO ⁽²⁾
4 8.13.5	Supplemental	Piping	C-CLAMPS	C							applies to IO ⁽²⁾
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C					C
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C							applies to IO ⁽²⁾
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C							applies to IO ⁽²⁾
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C				NA
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C					C
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C					C
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C							applies to IO ⁽²⁾
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C							applies to IO ⁽²⁾
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C							applies to IO ⁽²⁾
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C							applies to IO ⁽²⁾
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C							applies to IO ⁽²⁾
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C							applies to IO ⁽²⁾
4 8.16.7	Supplemental	Elevators	BRACKETS	C							applies to IO ⁽²⁾
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C							applies to IO ⁽²⁾
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C							applies to IO ⁽²⁾

Notes:

- 1) C=Compliance required for the nonstructural safety sub-rating shown.
- 2) "Applies to IO" indicates that this statement was not verified for IO performance , hence it cannot be answered definitively.

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Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.1.1	Basic	Partitions	UNREINFORCED MASONRY	C	C					C	
4 8.1.2	Supplemental	Partitions	DRIFT	C	C					NC	
4 8.1.4	Supplemental	Partitions	TOPS	C	C					C	
4 8.1.3	Supplemental	Partitions	STRUCTURAL SEPARATIONS	C						applies to IR ⁽²⁾	
4 8.2.4	Intermediate	Ceilings	SUSPENDED LATH AND PLASTER	C	C					NC	
4 8.2.1	Basic	Ceilings	SUPPORT	C	C					C	
4 8.2.3	Intermediate	Ceilings	INTEGRATED CEILINGS	C						C	
4 8.2.2	Intermediate	Ceilings	LAY-IN TILES	C						C	
4 8.2.5	Supplemental	Ceilings	EDGES ^a	C						applies to IR ⁽²⁾	
4 8.2.6	Supplemental	Ceilings	SEISMIC JOINT ^a	C						applies to IR ⁽²⁾	
4 8.3.1	Basic	Light fixtures	EMERGENCY LIGHTING	C	C	C				C	
4 8.3.2	Intermediate	Light fixtures	INDEPENDENT SUPPORT	C	C	C				NC	
4 8.3.3	Supplemental	Light fixtures	PENDANT SUPPORTS	C	C	C				U	
4 8.3.4	Supplemental	Light fixtures	LENS COVERS	C						applies to IR ⁽²⁾	
4 8.4.1	Basic	Cladding & glazing	CLADDING ANCHORS	C	C					NA	
4 8.4.3	Basic	Cladding & glazing	CLADDING ISOLATION	C	C					NA	
4 8.4.4	Basic	Cladding & glazing	MULTI-STORY PANELS	C	C					NA	
4 8.4.5	Basic	Cladding & glazing	BEARING CONNECTIONS	C	C					NA	
4 8.4.6	Basic	Cladding & glazing	INSERTS	C	C					NA	
4 8.4.7	Basic	Cladding & glazing	PANEL CONNECTIONS	C	C					NA	
4 8.4.8	Intermediate	Cladding & glazing	OVERHEAD GLAZING	C	C					NA	
4 8.4.9	Supplemental	Cladding & glazing	GLAZING RESTRAINT	C	C					NA	
4 8.5.1	Basic	Masonry Veneer	SHELF ANGLES (LS)	C	C					NA	
4 8.5.2	Basic	Masonry Veneer	TIES	C	C					NC	
4 8.5.3	Basic	Masonry Veneer	WEAKENED PLANES	C	C					NA	
4 8.5.5	Supplemental	Masonry Veneer	MORTAR	C	C					C	
4 8.6.1	Supplemental	Masonry Veneer	STUD TRACKS	C	C					NA	
4 8.6.2	Supplemental	Masonry Veneer	OPENINGS	C	C					NA	
4 8.7.1	Supplemental	Masonry Veneer	ANCHORAGE	C	C					NC	
4 8.7.2	Supplemental	Masonry Veneer	URM BACK-UP	C	C					NC	
4 8.8.1	Basic	Appendages	URM PARAPETS	C	C					C	
4 8.8.2	Basic	Appendages	CANOPIES	C	C					C	
4 8.8.3	Intermediate	Appendages	CONCRETE PARAPETS	C	C					NA	
4 8.8.4	Intermediate	Appendages	APPENDAGES (LS)	C	C					C	
4 8.8.4	Intermediate	Appendages	APPENDAGES (IO)	C	C					U	
4 8.9.1	Basic	Chimneys	URM CHIMNEYS	C	C					NA	
4 8.9.2	Intermediate	Chimneys	ANCHORAGE	C	C					NA	
4 8.10.2	Basic	Stairs	STAIR DETAILS	C	C	C				NA	
4 8.10.1	Basic	Stairs	URM WALLS	C	C					C	
4 8.11.4	Supplemental	Contents	ACCESS FLOORS	C	C	C				NA	
4 8.11.5	Supplemental	Contents	EQUIPMENT ON ACCESS FLOORS	C	C	C				NA	
4 8.11.1	Basic	Contents	TALL NARROW CONTENTS	C						NC	
4 8.11.2	Supplemental	Contents	FILE CABINETS ^a	C						NC	
4 8.11.3	Supplemental	Contents	CABINET DOORS AND DRAWERS ^a	C						applies to IR ⁽²⁾	
4 8.12.1	Basic	Mechanical & electrical equipment	EMERGENCY POWER	C	C	C				C	

Building: 50 UN Plaza

Nonstructural Recovery Sub-rating											
ASCE 31 Tier 2 Section	Checklist	Nonstructural Checklist Section	Item	Compliance Required for Safety sub-Rating				C	NC	NA	U
				5-Star	4-Star	3-Star	2-Star				
4 8.12.2	Basic	Mechanical & electrical equipment	HAZARDOUS MATERIAL EQUIPMENT	C	C	C				C	
4 8.12.4	Basic	Mechanical & electrical equipment	ATTACHED EQUIPMENT	C	C	C				C	
4 8.12.5	Intermediate	Mechanical & electrical equipment	VIBRATION ISOLATORS	C	C	C				U	
4 8.12.7	Supplemental	Mechanical & electrical equipment	ELECTRICAL EQUIPMENT	C	C	C				U	
4 8.12.8	Supplemental	Mechanical & electrical equipment	DOORS	C	C	C				U	
4 8.12.6	Supplemental	Mechanical & electrical equipment	HEAVY EQUIPMENT	C						C	
4 8.13.1	Basic	Piping	FIRE SUPPRESSION PIPING	C	C	C	C			C	
4 8.13.2	Basic	Piping	FLEXIBLE COUPLING	C	C	C	C			C	
4 8.13.4	Supplemental	Piping	SHUT-OFF VALVES	C	C	C	C			U	
4 8.13.3	Supplemental	Piping	FLUID AND GAS PIPING, hazmat	C	C	C	C			U	
4 8.13.3	Supplemental	Piping	FLUID PIPING, non hazmat	C	C	C	C			U	
4 8.13.5	Supplemental	Piping	C-CLAMPS	C	C					U	
4 8.14.1	Intermediate	Ducts	STAIR AND SMOKE DUCTS	C	C	C	C			C	
4 8.14.2	Supplemental	Ducts	DUCT BRACING	C	C	C	C			U	
4 8.14.3	Supplemental	Ducts	DUCT SUPPORT	C	C	C	C			U	
4 8.15.1	Basic	Hazardous materials	TOXIC SUBSTANCES	C	C	C	C			C	
4 8.15.2	Supplemental	Hazardous materials	GAS CYLINDERS	C	C	C	C				NA
4 8.15.3	Supplemental	Hazardous materials	HAZARDOUS MATERIALS	C	C	C	C			C	
4 8.16.1	Supplemental	Elevators	SUPPORT SYSTEM	C	C	C	C			U	
4 8.16.2	Supplemental	Elevators	SEISMIC SWITCH	C	C	C	C			U	
4 8.16.3	Supplemental	Elevators	SHAFT WALLS	C	C	C	C			U	
4 8.16.4	Supplemental	Elevators	RETAINER GUARDS	C	C	C	C			U	
4 8.16.5	Supplemental	Elevators	RETAINER PLATE	C	C	C	C			U	
4 8.16.6	Supplemental	Elevators	COUNTERWEIGHT RAILS	C	C	C	C			U	
4 8.16.7	Supplemental	Elevators	BRACKETS	C	C	C	C			U	
4 8.16.8	Supplemental	Elevators	SPREADER BRACKET	C	C	C	C			U	
4 8.16.9	Supplemental	Elevators	GO-SLOW ELEVATORS	C	C	C	C			U	

Notes:

1) C=Compliance required for the nonstructural recovery sub-rating shown, unless otherwise noted.

2) "Applies to IR" indicates that this statement has not been evaluated for recovery immediately or within days

^a-These items need not be considered except for purposes of adjusting the nonstructural recovery sub-rating in line 4.3.1.